

*Hayes*

JAN 24 1991

RECEIVED

JAN 22 1991

SUG

HEARINGS C:  
EPA-REGIO

784601

19 10 3  
1250

U.S. BANK OF WASHINGTON, NATIONAL ASSOCIATION  
HEAD OFFICE, SEATTLE, WASHINGTON

CASHIER'S CHECK

1-16

19

PURCHASER

TO REPLACE CHECK #1005937

Pay To The  
Order Of

\* \* \*U.S. TREASURER\* \* \*

\$

\*\*22,100.00\*\*

22,100.00

NOTICE TO CUSTOMER

The purchase of an indemnity bond may be required before any official check of this Bank will be replaced in the event it is lost, misplaced or stolen.

lkn

*[Signature]*  
AUTHORIZED SIGNATURE

12 186 WA 12 87

(b) (6)

LAW OFFICES OF  
**STAMPER & TAYLOR**

A PROFESSIONAL SERVICES CORPORATION

**RECEIVED**

**JAN 22 1991**

RANDALL L. STAMPER\*  
GARY J. TAYLOR  
TERESA A. SHERMAN  
CONNIE L. STAMPER

SUITE 200 POST PLACE  
WEST 720 BOONE  
SPOKANE, WASHINGTON 99201  
TELEFAX (509) 326-4891  
TELEPHONE (509) 326-4800

SEATTLE OFFICE  
1500 OLYMPIC BUILDING  
1500 YESLER WAY  
SEATTLE, WASHINGTON 98104  
TELEFAX (206) 624-7471  
TELEPHONE (206) 624-7468

STEVEN R. STOCKER  
SCOTT R. SMITH  
THOMAS M. CULBERTSON\*\*  
MILDRED L. CHILDERS\*\*\*  
ERIC M. STEVEN

**January 17, 1991**

IDAHO OFFICE  
POST OFFICE BOX 1852  
HARBOR CENTER, SUITE 200  
COEUR D'ALENE, IDAHO 83814-1852  
(509) 326-4800

\* Also admitted to Idaho Bar.  
\*\* Also admitted to Hawaii and Colorado Bars.  
\*\*\* Also admitted to Arizona Bar.

Environmental Protection Agency  
Region 10  
Region 10 Hearing Clerk  
Post Office Box 360903M  
Pittsburg, Penn. 15251

Re: Deaconess Medical Center, No. 1090-04-14-2615

Dear Sir or Madam:

On December 28, 1990, the Regional Administrator of the Environmental Protection Agency, Region 10, signed a Consent Agreement and Consent Order for Payment of Civil Penalties in the above referenced matter. The Respondent therein was Deaconess Medical Center whose mailing address is Post Office Box 248, Spokane, Washington 99210-0248.

You will find enclosed a certified check, No. 78460, payable to the United States Treasurer in the amount of Twenty-Two Thousand One Hundred Dollars (\$22,100.00) representing payment in full of the penalty imposed against Deaconess Medical Center in Docket No. 1090-04-14-2615.

Should you require anything further in this matter, please do not hesitate to contact me.

Very truly yours,

*Randall L. Stamper*  
RANDALL L. STAMPER

MLC:mmp/04891  
Enclosure  
cc: Dave Martin  
Tom White  
Tom Zellers  
Region 10 Hearing Clerk  
1200 Sixth Avenue, 50-125  
Seattle, Washington 98101



*Hoyes*



DEC 31 1990

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Reply To  
Attn. Of: SO-125

DEC 31 1990

Randy Stamper  
West 720 Boone  
Suite 200  
Spokane, Washington 99201

HEARINGS CLERK  
EPA—REGION X

Re: In the Matter of: Deaconess Medical Center,  
Docket No. 1090-04-14-2615  
Toxic Substances Control Act

Dear Mr. Stamper:

Enclosed is a conformed copy of the Consent Agreement and Consent Order for Payment of Civil Penalties (CACO) which was signed by the Regional Administrator on December 28, 1990. The original CACO has been filed with the Regional Hearing Clerk. Pursuant to the CACO, payment of the civil penalty of \$22,100 is due no later than January 30, 1990.

On behalf of the U.S. Environmental Protection Agency, thank you for your cooperation in reaching a satisfactory resolution in this matter.

Sincerely,

Bonnie L. Thie  
Assistant Regional Counsel

Enclosure

RECEIVED

DEC 31 1990

HEARINGS CLERK  
EPA—REGION X

BEFORE THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

In the Matter of:

DEACONESS MEDICAL CENTER,  
Spokane, Washington,

Respondent.

Docket No. 1090-04-14-2615

CONSENT AGREEMENT AND CONSENT  
ORDER FOR PAYMENT OF CIVIL  
PENALTIES

I. PRELIMINARY STATEMENT

1. The United States Environmental Protection Agency ("EPA") initiated this proceeding for the assessment of a civil penalty pursuant to Section 16(a) of the Toxic Substances Control Act ("TSCA"), 15 U.S.C. § 2615(a), by issuing a Complaint against Respondent, Deaconess Medical Center on August 15, 1990.

2. The Complaint charged Respondent with 16 violations: counts one through five under the quarterly and annual inspection requirements, 40 C.F.R. § 761.30(a)(1)(ix);

count six under the marking requirements, 40 C.F.R. § 761.40(j)(1); counts seven through eleven under the recordkeeping requirements, 40 C.F.R. § 761.180(a); and counts 12 through 16 under the fire registration requirement, 40 C.F.R. § 761.30(a)(1)(vi). The Complaint sought a penalty of FIFTY-TWO THOUSAND FIVE HUNDRED DOLLARS (\$52,500).

3. As a result of information exchanged during settlement negotiations, EPA and Respondent agreed to resolve this matter by executing this Consent Agreement and Consent Order.

## II. CONSENT AGREEMENT

4. Respondent admits the jurisdictional allegations contained in the Complaint.

5. Respondent neither admits nor denies the factual allegations contained in the Complaint.

6. The parties agree that on March 5, 1990, an EPA inspection was performed at Respondent's facility located at Deaconess Medical Center, West 800 Fifth Avenue, Spokane, Washington.

7. Respondent has been cooperative and took prompt action to respond to the Complaint and settle this matter voluntarily. Respondent disposed of five PCB transformers, incurring disposal costs exceeding FORTY-FOUR THOUSAND TWO HUNDRED DOLLARS (\$44,200). Respondent provided an affidavit documenting that the unlabeled door, which was the basis for the

1 marking violation, was sealed with a bolted metal plate and  
2 cement, and, therefore, was not functional as a door. Therefore,  
3 EPA hereby dismisses Violation Six for marking which reduces the  
4 penalty by FIVE HUNDRED DOLLARS (\$500). Further, in conformance  
5 with EPA's Polychlorinated Biphenyls (PCB) Penalty Policy, dated  
6 April 9, 1990, EPA agrees to reduce the penalty proposed in the  
7 Complaint. The proposed penalty is reduced by 15 percent for  
8 cooperativeness and another 50 percent (of the reduced amount)  
9 for early disposal of the PCB transformers, leaving a penalty of  
10 TWENTY-TWO THOUSAND ONE HUNDRED DOLLARS (\$22,100).

11 8. Respondent waives its right to request an  
12 adjudicatory hearing on any issue addressed in this Consent  
13 Agreement and Consent Order.

14 9. Respondent agrees not to claim or attempt to claim  
15 a federal income tax deduction or credit covering all or any part  
16 of the civil penalty paid to the United States Treasurer.

17 10. Respondent and EPA agree to the issuance of the  
18 Consent Order below, and Respondent consents to the assessment of  
19 the civil penalty specified therein.

### 20 III. CONSENT ORDER

21 IT IS HEREBY ORDERED and ADJUDGED as follows:

22 11. For the reasons set forth above, Respondent is  
23 hereby assessed a penalty in the amount of TWENTY-TWO THOUSAND  
24 ONE HUNDRED DOLLARS (\$22,100).

12. Respondent shall pay the penalty amount in full no later than 30 days from the entry date of this Consent Order by mailing a certified check or money order, payable to the United States Treasurer, to:

U.S. Environmental Protection Agency, Region 10  
(Region 10 Hearing Clerk)  
P.O. Box 360903M  
Pittsburgh, Pennsylvania 15251

A transmittal letter, giving Respondent's name, complete address, and this case docket number must accompany each payment. A copy of the check and of the transmittal letter shall be delivered or mailed to the Regional Hearing Clerk at the following address:

U.S. Environmental Protection Agency  
Region 10 Hearing Clerk  
1200 Sixth Avenue, SO-125  
Seattle, Washington 98101

13. If Respondent fails to pay the stipulated penalty when due, any unpaid amount may be liquidated and made certain by motion and notice filed with the court to which this Consent Order is submitted for judgment and collection. Such motion and notice may be served on the Respondent or its current legal representative herein and shall be effective if so served. Under TSCA Section 16(a)(4), 15 U.S.C. § 2615(a)(4), the validity, amount, and appropriateness of the penalty is not subject to review in any judicial collection proceedings.

14. On any amount overdue under this Consent Agreement and Consent Order, interest shall accrue at the rate established

1 by the Secretary of the Treasury pursuant to 31 U.S.C. § 3717.  
2 Interest will begin to accrue from the date the payment was due.

3 15. Each party shall bear its own costs, fees, and  
4 disbursements in this action.

5 16. This document is a "consent order" as that term is  
6 used in the PCB Penalty Policy. In calculating penalties for any  
7 future PCB violation, this consent order demonstrates a "history  
8 of prior such violations" under Section 16 of TSCA, 5 U.S.C.  
9 § 2615.

10 DATED this 28<sup>th</sup> day of December, 1990.

11 Dana A. Rasmussen

12 DANA A. RASMUSSEN  
13 Regional Administrator

14 Stipulated, Agreed, and  
15 Approved for Entry,  
16 Waiving Notice:

DEACONESS MEDICAL CENTER,  
Spokane, Washington

17 Dated: 12/17/90

18 Thomas M. White  
(signature)

19 President Thomas M. White  
(print or type name and title)

20  
21 U.S. ENVIRONMENTAL PROTECTION  
22 AGENCY

23 Dated: 12-24-90

24 Bonnie L. Thie  
Assistant Regional Counsel



NOV 21 1990

RECEIVED

NOV 26 1990

PEL TOXIC  
SUBSTANCES BRANCH  
EPA REGION 10

NOV 21 1990

Reply To  
Attn. Of: SO-125

Randy Stamper  
West 720 Boone  
Suite 200  
Spokane, Washington 99201

HEARINGS CLERK  
EPA-REGION X

Re: In the Matter of: Deaconess Medical Center,  
Docket No. 1090-04-14-2615  
Toxic Substances Control Act

Dear Mr. Stamper:

Enclosed is a Motion, Stipulation, and Order for Extension of Time to File Answer in the above referenced matter. The new deadline for filing the Answer is December 21, 1990.

In addition, also enclosed is a proposed Consent Agreement and Consent Order. If the proposed Order is acceptable, then please sign the Order and return the original to me within 10 days of the date of this letter. A conformed copy will be returned to you after the Regional Administrator signs the Order.

If you have any questions concerning this matter please contact me at (206) 442-1169.

Thank you for your cooperation in resolving this matter.

Sincerely,

Bonnie L. Thie  
Assistant Regional Counsel

RECEIVE

NOV 21 1990

HEARINGS CLERK  
EPA—REGION X

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
BEFORE THE REGIONAL ADMINISTRATOR  
Region 10  
Seattle, Washington

IN THE MATTER OF:

DEACONESS MEDICAL CENTER,

Respondent.

Docket No. 1090-04-14-2615

MOTION, STIPULATION, AND ORDER  
FOR EXTENSION OF TIME TO  
FILE ANSWER

MOTION AND STIPULATION

The Parties in the above-entitled matter jointly request and stipulate that the time for Respondent to file an answer be extended in order to allow the Parties sufficient time to attempt to resolve the matter.

Dated: 11-21-90

Brian Rine for R. Stamps  
FOR RESPONDENT  
per telephone call

Dated: 11-21-90

Brian Rine  
FOR EPA



ORDER

In accordance with 40 C.F.R. §§ 22.07(b) and 22.16(c) and pursuant to the Parties' approval by the signature(s) affixed above, the time for Respondent to file an answer is extended to the close of business on the 21st day of December, 1990.

Dated: Nov-21, 1990

DANA A. RASMUSSEN  
REGIONAL ADMINISTRATOR

*Dana A. Rasmussen*  
By Direction  
Hearing Clerk, EPA Region 10

*Hayes*



OCT 22 1990

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OCT 22 1990

HEARINGS CLERK  
EPA—REGION X

Reply To  
Attn. Of: SO-125

Randy Stamper  
West 720 Boone  
Suite 200  
Spokane, Washington 99201

Re: In the Matter of: Deaconess Medical Center,  
Docket No. 1090-04-14-2615  
Toxic Substances Control Act

Dear Mr. Stamper:

Enclosed is a Motion, Stipulation, and Order for Extension of Time to File Answer in the above referenced matter. The new deadline for filing the Answer is November 23, 1990.

If you have any questions concerning this matter please contact me at (206) 442-1169.

Sincerely,

Bonnie L. Thie  
Assistant Regional Counsel

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OCT 24 1990

PESTICIDES & TOXIC  
SUBSTANCES BRANCH  
EPA REGION 10

RECEIVED

OCT 22 1990

HEARINGS CLERK  
EPA—REGION X

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
BEFORE THE REGIONAL ADMINISTRATOR  
Region 10  
Seattle, Washington

IN THE MATTER OF:

DEACONESS MEDICAL CENTER,

Respondent.

Docket No. 1090-04-14-2615

MOTION, STIPULATION, AND ORDER  
FOR EXTENSION OF TIME TO  
FILE ANSWER

MOTION AND STIPULATION

The Parties in the above-entitled matter jointly request and stipulate that the time for Respondent to file an answer be extended in order to allow the Parties sufficient time to attempt to resolve the matter.

Dated: 10-22-90

B. Stanger by Brian Rice  
FOR RESPONDENT  
*per telephone call*

Dated: 10-22-90

Brian Rice  
FOR EPA

MOTION, STIPULATION, AND ORDER FOR EXTENSION OF TIME - PAGE 1

ORDER

In accordance with 40 C.F.R. §§ 22.07(b) and 22.16(c) and pursuant to the Parties' approval by the signature(s) affixed above, the time for Respondent to file an answer is extended to the close of business on the 23rd day of November, 1990.

Dated, October 22, 1990

GERALD A. EMISON  
ACTING REGIONAL ADMINISTRATOR

Miriam L. Altman  
By Direction  
Hearing Clerk, EPA Region 10

LAW OFFICES OF  
**STAMPER & TAYLOR**

A PROFESSIONAL SERVICES CORPORATION

RANDALL L. STAMPER\*  
GARY J. TAYLOR  
TERESA A. SHERMAN  
CONNI L. STAMPER

STEVEN R. STOCKER  
SCOTT R. SMITH

\*Also admitted to Idaho Bar.

SUITE 200 POST PLACE  
WEST 720 BOONE  
SPOKANE, WASHINGTON 99201  
TELEFAX (509) 326-4891  
TELEPHONE (509) 326-4800

October 9, 1990

RECEIVED  
OCT 16 1990

PESTICIDES & TOXIC  
SUBSTANCES BRANCH  
EPA REGION 10

SEATTLE OFFICE  
SUITE 305 OLYMPIC BUILDING  
101 YESLER WAY  
SEATTLE, WASHINGTON 98104  
TELEFAX (206) 624-7471  
TELEPHONE (206) 624-7468

IDAHO OFFICE  
POST OFFICE BOX 1852  
HARBOR CENTER, SUITE 200  
COEUR D'ALENE, IDAHO 83814-1852  
(509) 326-4800

Ms. Bonnie Thie  
Assistant Regional Counsel  
U.S. Environmental Protection Agency  
1200 Sixth Avenue, 50-125  
Seattle, Washington 98101

Re: EPA Settlement

Dear Bonnie:

Enclosed please find the affidavit from Ken Bayne, reflecting the fact that the door in question was totally inaccessible for at least the last ten years since it had been bolted completely shut and could not be opened in any manner. Also enclosed please find correspondence from Ken Bayne reflecting that each of the five transformers had approximately twenty years of service left at the time they were disposed of. Finally, I enclose a fax from Westinghouse Electric Corporation reflecting that the cost of transport and disposal for the five transformers amounted to \$56,700.

Your final question concerned the type of transformers involved in our discussions. The transformers were of the following type: low voltage, non-radial transformers.

If you have any additional questions, please contact me. It is my understanding that based upon this information, you will be providing me a stipulated settlement reflecting a fine of \$22,100. I look forward to reviewing your proposed stipulated settlement document.

Very truly yours,

*Randall L. Stamper*  
RANDALL L. STAMPER

RLS:tk/5058p  
Enclosure  
cc: Tom White  
Dave Martin (w/enc.)

RECEIVED  
OCT 11 1990

OFFICE OF REGIONAL COUNSEL  
EPA - REGION X

1 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
2 BEFORE THE REGIONAL ADMINISTRATOR  
3 Region 10  
4 Seattle, Washington

5 IN THE MATTER OF: )  
6 DEACONESS MEDICAL CENTER, Spokane, ) No. 1090-04-14-2615  
7 Washington, )  
8 Respondent. )  
9

10 STATE OF WASHINGTON )  
11 :ss.  
12 County of Spokane )  
13

14 I, KEN BAYNE, being first duly sworn upon oath, depose and  
15 state that :

16 1. I have been working for DEACONESS MEDICAL CENTER since  
17 March 23, 1980 and for the past six years have been the Safety  
18 and Security Manager for DEACONESS MEDICAL CENTER.

19 2. From the time I first began working for DEACONESS  
20 MEDICAL CENTER in 1980, the Sherwood Vault Building, which  
21 contained two PCB transformers, had only one accessible  
22 entrance/exit from a doorway, located on the southside of the  
23 building, for purposes of entering or exiting the building.

24 3. As far as I know, at some time prior to 1980, the  
25 Sherwood Vault had two entrances, one accessible entrance from  
26 the south and one from the east side of the building.

27 4. On the east side of the Sherwood Vault Building there  
28 were a pair of 36" wide doors which met and closed in the middle  
29 of the doorway. At all times that I have worked at DEACONESS  
30 MEDICAL CENTER, there was a metal plate, approximately 8" x 8",  
31 bolted onto the outside face of both doors making it impossible  
32

AFFIDAVIT OF KEN BAYNE: 1

LAW OFFICES OF  
STAMPER & TAYLOR  
A PROFESSIONAL SERVICES CORPORATION  
SUITE 200 POST PLACE  
WEST 720 BOONE  
SPOKANE, WASHINGTON 99201  
(509) 326-4800

1 for the doors to be used for ingress into, or egress from, the  
2 Sherwood Vault Building.

3 5. The metal plate was bolted onto both doors on the side  
4 which faced outside into the courtyard area between the Sherwood  
5 Vault Building and Deaconess Hospital. The outside door handles  
6 had been removed and the metal plate was bolted over the doors  
7 covering the area where the handles had once been located.

8 6. On the other side of the double doors, inside the  
9 Sherwood Vault Building, there was a 12" high concrete  
10 containment basin, which would have made it almost impossible to  
11 gain access into or out of the building using this access, even  
12 if the substantial effort necessary to remove the bolts and  
13 plate was undertaken.

14 7. In the 10 1/2 years that I have worked at DEACONESS  
15 MEDICAL CENTER, the eastside double doors, which were bolted  
16 shut by the metal plate, were never intended to be used as a  
17 means of egress out of, or ingress into the Sherwood Vault  
18 Building.

19 8. The bolted double doors were never used and could not  
20 be used as a means of entrance into or exit from the Sherwood  
21 Vault at any time since 1980.

22  
23 DATED this 8<sup>th</sup> day of October, 1990.

24  
25  
26 By: *Ken Bayne*  
27 KEN BAYNE

28 October SIGNED AND ATTESTED to before me this 8<sup>th</sup> day of  
29 ~~September~~, 1990.

30  
31 *Ann M. Whalley*  
32 NOTARY PUBLIC in and for the State  
of Washington, residing at Spokane  
My appointment expires 11-17-92

MLC:mmp/01781  
AFFIDAVIT OF KEN BAYNE: 2

LAW OFFICES OF  
STAMPER & TAYLOR  
A PROFESSIONAL SERVICES CORPORATION  
SUITE 200 POST PLACE  
WEST 720 BOONE  
SPOKANE, WASHINGTON 99201  
(509) 326-4800



Westinghouse  
Electric Corporation

Advanced Industrial  
Systems Divisions

Engineering Services  
1180 Andover Park West  
Seattle WA 98188  
(206) 875 2345

FAX (206) 575-2551

WIN 775-2551

FAX TRANSMITTAL

DATE Sept. 21, 1990 TIME 3:30 PM

TO: NAME Don Rana  
LOCATION Diagona Hospital Spokane  
FAX NO. 509-458-7304

FROM: NAME Glenn Eustance  
PHONE 206-575-2345

NUMBER OF PAGES (Including this transmittal sheet) 1

PCB Transformer. Transport & Disposal.

MESSAGE

1988 - W job # M-624 - 4,200 (3 transformers)

1990 - W job # O-534 - 15,000 (2 transformers)

/ Glenn Eustance





# DEACONESS

MEDICAL CENTER · SPOKANE

West 800 Fifth Avenue

Post Office Box 248  
Spokane, WA  
99210-0248

(509) 458-5800

October 8, 1990

Mr. Randy Stamper  
Suite 200 Post Place  
West 720 Boone  
Spokane, Washington 99201

Dear Randy

Enclosed is a copy of Westinghouse's transformer transport and disposal costs for the five PCB transformers that were removed from Deaconess Medical Center. Regarding the remaining estimated useful life of the transformers that were removed, I spoke to Mr. Jan Mettler, P.E., Operations Engineer at the Washington Water Power Company.

Mr. Mettler stated that transformers seldom wear out. Further, based on a minimum life expectancy of 50 years minus the roughly 30 years of trouble free use, we could have reasonably expected another 20 years of service from each of the transformers.

Please feel free to contact me if you have any questions. -

Sincerely

Ken Bayne,  
Safety & Security Manager

Enclosure  
c1

*Hager*



SEP 19 1990

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SEP 19 1990

HEARINGS CLERK  
EPA REGION X

RECEIVED

SEP 20 1990

PEL AND/OR TOXIC  
SUBSTANCES BRANCH  
EPA REGION 10

Reply To  
Attn. Of: SO-125

Randy Stamper  
West 720 Boone  
Suite 200  
Spokane, Washington 99201

Re: In the Matter of: Deaconess Medical Center,  
Docket No. 1090-04-14-2615  
Toxic Substances Control Act

Dear Mr. *Randy* Stamper:

Enclosed is a Motion, Stipulation, and Order for Extension of Time to File Answer in the above referenced matter. The new deadline for filing the Answer is October 22, 1990.

If you have any questions concerning this matter please contact me at (206) 442-1169.

Sincerely,

Bonnie L. Thie  
Assistant Regional Counsel

RECEIVED

SEP 19 1990

HEARINGS CLERK  
EPA - REGION X

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
BEFORE THE REGIONAL ADMINISTRATOR  
Region 10  
Seattle, Washington

IN THE MATTER OF:

DEACONESS MEDICAL CENTER,

Respondent.

Docket No. 1090-04-14-2615

MOTION, STIPULATION, AND ORDER  
FOR EXTENSION OF TIME TO  
FILE ANSWER

MOTION AND STIPULATION

The Parties in the above-entitled matter jointly request and stipulate that the time for Respondent to file an answer be extended in order to allow the Parties sufficient time to attempt to resolve the matter.

Dated: 9-19-90

R. Stanger by B. T. Thie  
FOR RESPONDENT *per discussion on 9-18-90*

Dated: 9-19-90

B. T. Thie  
FOR EPA

ORDER

In accordance with 40 C.F.R. §§ 22.07(b) and 22.16(c) and pursuant to the Parties' approval by the signature(s) affixed above, the time for Respondent to file an answer is extended to the close of business on the 22nd day of October, 1990.

Dated: Sept. 19, 1990

THOMAS P. DUNNE  
ACTING REGIONAL ADMINISTRATOR

William L. Ottens  
By Direction  
Hearing Clerk, EPA Region 10

Tuesday, September 18, 1990  
Settlement Conference for Deaconess Medical Center  
8th Floor Conference Room

THE FOLLOWING IS A SUMMARY OF THE SETTLEMENT DISCUSSION THAT OCCURRED.

ATTENDEES

Bonnie Thie, EPA Attorney  
Eileen Hayes, EPA Case Reviewer  
David R. Martin, Director, Risk Management, Deaconess Medical Center  
Randall Manfel, Attorney, Deaconess Medical Center

Eileen - Opening remarks/introductions

Randal- Presentation of chronology of events

Felt that most of what occurred, occurred because of an employee who has since retired. Though hospital had complied with the regulations.

Eileen - Went through violations as listed in complaint.

Also referred to July 2, 1990 letter from Ken Bayne & David Martin of Deaconess stating all annual reports were prepared in April of 1990 in response to my letter of inquiry.

Randal - Take issue with marking violation. The door in question had been sealed for approximately 10 years. Was not a point of entry. Point of entry was marked

Eileen - How was door sealed? Difference between sealed and locked.

Randal - Believe door was welded. Will call & find out before leaving today.

Eileen - If documentation can be provided to EPA concerning this claim (suggested signed affidavit) EPA will consider dismissing this violation.

Randal - Questions concerning penalty calculations.

Break (15 minutes approximately)

Eileen - Went through penalty calculations

Violations stand as cited with exception of marking violation - if affidavit can be provided.

Offer: Penalty assessed at \$52,000  
15% Good Faith - \$7800  
Assessed Penalty - \$44,200  
Credit for early disposal - \$2.00 spent for every \$1.00 mitigated  
50% of penalty in cash - \$22,100  
Early disposal cost must be equal to or greater than twice the amount mitigated (\$22,100) or \$44,200 dollars spent for early disposal.

Randal - Can't accept offer today officially but will recommend acceptance. Asked Bonnie to draw up final order

Bonnie - Will extend time to prepare answer for 3 weeks and prepare final order.

END OF CONFERENCE

*M. Eileen Hayes 09/18/90*

# Deaconess Settlement

Cileen Hayes

EPA

4142-2584

Randall L. Hampel Attorney, Deac. Med. Center (509) 326-4800

David R. Martin

Director Risk Management EHS

509-459-4960

Bonnie Thie

EPA - Office of Reg'l Counsel

206-442-~~16~~1169

335

818

140

100

117

---

870

DMC V. EPA

CHRONOLOGY OF EVENTS

1. 8/22/83 - Inspection of all 5 PCB Transformers by Transformer Consultants, S.D. Myers, Inc.
2. 11/9/84 - Invoice No. P084-K31 to check the Askarel (fluid containing PCB) in 5 PCB transformers and furnish report to DMC (to Transformers Consultants).
  - a. 11/19/84 - Certificate of insurance issued.
  - b. Effective date: 04/03/84 - 4/3/85  
Workman's Comp. policy for Transformer Consultants Division.
3. 11/14/84 - Sales Order - 5 Askarel checks - inspection of 5 PCB Transformer valves - by Transformer Consultants.
4. 01/05/85 - Inspection of all 5 PCB Transformers by Transformers Consultants.
5. 02/05/85 - Notation on sales order - closed and no leaks.
6. 07/12/85 - Memo re: Tour of electrical vaults - work to be performed (Response to recommendations of general cleanup?)
7. 01/10/86 - Inspection of all 5 PCB Transformers by Transformer Consultants.
8. 03/06/86 - Letter to Spokane Fire Dept. registering PCB Transformers (regulations - 12/1/85) (Oral representations to fire personnel?)
9. Approx. 05/87 - Inspection of all 5 PCB Transformers by General Electric Company for purposes of estimating costs of retrofitting and disposal of PCB Transformers.
10. 06/02/87 - G.E. Quotation No. 437A00012 re: retrofitting and disposal of all 5 PCB Transformers.
11. 05/13/88 - Purchase Requisition - removal of 3 PCB Transformers - install 3 silicone transformers (vendor - Westinghouse Electric Corp.).



12. 12/88            Annual Report - three removed from service  
12/1/88.
13. 12/01/88 - Transformer 1 - Chiller removed from service.  
a. 12/08/89 - Certificate of Disposal 452JE.
14. 12/01/88 - Transformer 2 - North Wing Vault removed from  
service.  
a. 01/04/90 - Certificate of Disposal 781HE.
15. 12/03/88 - Transformer 3 - South Wing Roof removed from  
service.  
a. 07/19/89 - Certificate of Disposal  
#775HE issued.
16. 1989            Annual Report.
17. 03/05/90 - Inspection by EPA (Michael Hoyles).
18. 04/26/90 - Letter from Ken Byane to Gil Haselberger of  
Toxic Substances Section.
19. 04/90 - PCB label added to Sherwood vault (after  
inspection).
20. 4/90 - All PCB Annual Report Summaries prepared in  
response to EPA request (background info.  
existed).
21. 7/11/90 - Retrofitting and disposal of remaining 2 PCB  
transformers.
22. 8/12/90 - EPA letter notification of violations.
23. 8/15/90 - EPA complaint filed and served on DMC.
24. 8/23/90 - Motion, Stipulation and Order for Extension of  
Time to File Answer.

0123I

*Hayes*

RECEIVED

AUG 23 1990

HEARINGS CLERK  
EPA-REGION X

AUG 27 RECD

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
BEFORE THE REGIONAL ADMINISTRATOR  
Region 10  
Seattle, Washington

IN THE MATTER OF:

DEACONESS MEDICAL CENTER,

Respondent.

Docket No. 1090-04-14-2615

MOTION, STIPULATION, AND ORDER  
FOR EXTENSION OF TIME TO  
FILE ANSWER

MOTION AND STIPULATION

The Parties in the above-entitled matter jointly request and stipulate that the time for Respondent to file an answer be extended in order to allow the Parties sufficient time to attempt to resolve the matter.

Dated: 8-23-90

R. Stamper by B. Thie  
FOR RESPONDENT  
*per telephone call*

Dated: 8-23-90

B. Thie  
FOR EPA

ORDER

In accordance with 40 C.F.R. §§ 22.07(b) and 22.16(c) and pursuant to the Parties' approval by the signature(s) affixed above, the time for Respondent to file an answer is extended to the close of business on the 28th day of September 28, 1990.

Dated: Dec 23, 1990

THOMAS P. DUNNE  
ACTING REGIONAL ADMINISTRATOR

Maureen L. McKenney  
By Direction  
Hearing Clerk, EPA Region 10

● **SENDER:** Complete Items 1 and 2 when additional services are desired, and complete items 3 and 4.  
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. (Extra charge)  
2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:

Mr. Thomas White, President  
Deaconess Medical Center  
P.O. Box 248  
Spokane, WA 99210-0248

4. Article Number

P-338 605 939

Type of Service:

- ☐ Registered ☐ Insured  
☒ Certified ☐ COD  
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and **DATE DELIVERED**.

5. Signature — Addressee

X

6. Signature — Agent

X

7. Date of Delivery

AUG 17 1990

8. Addressee's Address (ONLY if requested and fee paid)

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address and ZIP Code in the space below.

- Complete Items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.



AUG 20 1990

PESTICIDES & TOXIC  
SUBSTANCES BRANCH  
EPA REGION 10



PENALTY FOR PRIVATE  
USE, \$300

RETURN  
TO

→ E.H.

Print Sender's name, address, and ZIP Code in the space below.

U.S. EPA - REGION 10  
PESTICIDES & TOXIC SUB. BR.  
1200 - 6TH AVE. (AT-083)  
SEATTLE, WA 98101





**DEACONESS**  
MEDICAL CENTER · SPOKANE

July 2, 1990

RECEIVED

JUL 05 1990

PESTICIDES & TOXIC  
SUBSTANCES BRANCH  
EPA REGION 10

West 800 Fifth Avenue

Post Office Box 248  
Spokane, WA  
99210-0248

(509) 458-5800

M. Eileen Hayes  
Environmental Protection Agency  
1200 Sixth Avenue M/S AT-083  
Seattle, Washington 98101

Dear Ms. Hayes:

Thank you for your correspondence of June 18, 1990 concerning our letter dated April 26, 1990. After reviewing your request for information pertaining to our annual inspection records for 1984, and our in-house maintenance inspection records for period January through June 1987, we offer the following:

Items 1-5: The PCB Transformers were periodically inspected by in-house maintenance personnel, during 1984 and the period between January and June 1987. However, we do not have documentation supporting these inspections.

Item 6: All of the PCB Annual Reports were prepared in April of 1990.

If you need further clarification please contact me at (509)458-7360.

Sincerely,

Ken Bayne  
Safety and Security Manager.

David Martin  
Dir. Risk Management

cc: Tom White



*Firm*  
**AUG 15 1990**

Reply To  
Attn Of: SO-125

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Thomas White, President  
Deaconess Medical Center  
P.O. Box 248  
Spokane, Washington 99210-0248

Re: Toxic Substances Control Act  
Docket No. 1090-04-14-2615

Dear Mr. White:

Enclosed is an administrative complaint for the assessment of civil penalties that has been filed against Deaconess Medical Center by the Environmental Protection Agency. A copy of the penalty policy and the Consolidated Rules of Practice that apply to this complaint are also enclosed. Please read these documents carefully and respond within the time limit specified in the complaint.

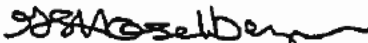
The complaint alleges that Deaconess Medical Center violated the use, marking, and recordkeeping provisions of the PCB (polychlorinated biphenyl) Regulations issued under the Toxic Substances Control Act (TSCA). As explained in the complaint, unless you request and receive a written extension of time, you have 20 days to do one of the following:

1. arrange a settlement conference;
2. file a written answer and request a hearing with an administrative law judge; or
3. pay the assessed penalty.

The specific procedures for each of the three options are explained in the complaint. Also, as explained in the complaint, if you fail to take one of the actions outlined above, a default order could be entered against you. After entry of an order of default, penalties can be assessed against you without further notice.

However, we are available to discuss with you the alleged violations and proposed penalties. Such discussions may result in settlement which would make the filing of a written answer unnecessary. Bonnie L. Thie, Assistant Regional Counsel, is the attorney handling this complaint for EPA. If you want to arrange for a settlement conference, request a time extension, or have other questions, you may call her at (206) 442-1037.

Sincerely,

  
for Kenneth D. Feigner, Chief  
Pesticides and Toxic Substances Branch

Enclosures

cc: Bill Danson, EPA Headquarters



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7 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
8

9 In the Matter of:

DOCKET NO. 1090-04-14-2615

10 DEACONESS MEDICAL CENTER,  
11 Spokane, Washington,

COMPLAINT

12 Respondent.  
13  
14

15 I.

16 JURISDICTION  
17

18 1. This is an administrative action instituted pursuant to  
19 Section 16(a) of the Toxic Substances Control Act (TSCA), 15 U.S.C.  
20 § 2615(a), for the assessment of a civil penalty. The Complainant is  
21 Region 10, United States Environmental Protection Agency (EPA). Complainant  
22 has reason to believe that the above-named Respondent has violated federal  
23 regulations addressing the use and/or disposal of polychlorinated biphenyls  
24 (PCBs) (40 C.F.R. Part 761 promulgated under Section 6 of TSCA), and thereby  
25 has violated Section 15 of TSCA, 15 U.S.C. § 2614.  
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II.

FINDINGS AND VIOLATIONS

2. On March 5, 1990, an EPA inspection was performed at Deaconess Medical Center, West 800 Fifth Avenue, Spokane, Washington. The purpose of the inspection was to determine compliance with TSCA, 15 U.S.C. § 2601 et seq., and specifically the PCB regulations promulgated at 40 C.F.R. Part 761. The inspection disclosed the following violations:

VIOLATIONS ONE THROUGH THREE

3. REGULATION - QUARTERLY INSPECTIONS: 40 C.F.R.

§ 761.30(a)(1)(ix) requires that a visual inspection of each PCB Transformer (as defined in the definition of "PCB Transformer" under § 761.3) in use or stored for reuse shall be performed at least once every 3 months. These inspections may take place any time during the 3-month periods: January-March, April-June, July-September, and October-December as long as there is a minimum of 30 days between inspections. The visual inspection must include investigation for any leak of dielectric fluid on or around the transformer. The extent of the visual inspections will depend on the physical constraints of each transformer installation and should not require an electrical shutdown of the transformer being inspected.

40 C.F.R. § 761.30(a)(1)(xii) states that records of inspection and maintenance history shall be maintained at least 3 years after disposing

1 of a transformer and shall be made available for inspection, upon  
2 request by EPA. Such records shall contain the following  
3 information for each PCB Transformer:  
4

- 5 (A) Its location.
- 6 (B) The date of each visual inspection and the date that a leak  
7 was discovered, if different from the inspection date.
- 8 (C) The person performing the inspection.
- 9 (D) The location of any leak(s).
- 10 (E) An estimate of the amount of dielectric fluid released from  
11 any leak.
- 12 (F) The date of any cleanup, containment, repair, or replacement.
- 13 (G) A description of any cleanup, containment, or repair performed.
- 14 (H) The results of any containment and daily inspection required  
15 for uncorrected active leaks.
- 16

17 40 C.F.R. § 761.30(a)(1)(xiii) states that a reduced visual inspection  
18 frequency of at least once every 12 months applies to PCB Transformers  
19 that utilize either of the following risk reduction measures.  
20

- 21 (A) A PCB Transformer which has impervious, undrained, secondary  
22 containment capacity of at least 100 percent of the total  
23 dielectric fluid volume of all transformer so contained, or  
24  
25  
26  
27

1 (B) A PCB Transformer which has been tested and found to contain  
2 less than 60,000 ppm PCBs (after 3 months of in service use if  
3 the transformer has been serviced for purposes of reducing the  
4 PCB concentration).

5  
6 These inspections may take place any time during the calendar year as  
7 long as there is a minimum of 180 days between inspections.

8  
9 4. VIOLATIONS ONE THROUGH THREE: There is no record of annual  
10 inspections having been conducted during the calendar year 1984 on the  
11 following three PCB Transformers prior to their removal from service.

12  
13 VIOLATION ONE: ITE, serial number 20982-A01, 2000  
14 KVA, 315 gallons Askarel, formerly  
15 located in the Chiller Building.

16  
17 VIOLATION TWO: ITE, serial number 20982-D01, 500  
18 KVA, 218 gallons Askarel, formerly  
19 located in the North Wing Vault.

20  
21 VIOLATION THREE: ITE, serial number 20982-B01, 140  
22 gallons Askarel, formerly located on  
23 the South Wing roof.

VIOLATIONS FOUR AND FIVE

5. VIOLATIONS FOUR AND FIVE: There is no record of annual inspections having been conducted during the calendar year 1984 on the two in-service PCB Transformers identified below.

VIOLATION FOUR: General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

VIOLATION FIVE: ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

VIOLATION SIX

6. REGULATION - MARKING: 40 C.F.R. § 761.40(j)(1) requires that as of December 1, 1985, the vault door, machinery room door, fence, hallway, or means of access, other than grates and manhole covers, to a PCB Transformer must be marked with the required PCB label. In general, a 6 inch by 6 inch PCB label is required, although the label may be reduced in size proportionately to a minimum of 2 inches by 2 inches for equipment too small to accommodate the standard 6 inch by 6 inch label.

1           7.    **VIOLATION SIX:** The door to the Sherwood Transformer Vault  
2 was not marked with the required PCB label.

3  
4                           **VIOLATIONS SEVEN THROUGH ELEVEN**

5  
6           8.    **REGULATION - RECORDS & MONITORING:** 40 C.F.R. § 761.180(a)  
7 states that, beginning July 2, 1978, each owner or operator of a facility  
8 using or storing at one time at least 45 kilograms (99.4 pounds) of PCBs  
9 contained in PCB Container(s), or one or more PCB Transformers, or 50 or more  
10 PCB Large High or Low Voltage Capacitors, shall develop and maintain records  
11 on the disposition of the PCBs and PCB Items. The records shall form the  
12 basis of an annual document prepared for each facility by July 1, covering  
13 the previous calendar year. The following information for each facility  
14 shall be included in the annual document:

15  
16           1) The dates when PCBs and PCB Items are removed from service, are  
17 placed into storage for disposal, and are placed into transport for  
18 disposal. The quantities of the PCBs and PCB Items shall be  
19 indicated using the following breakdown:

20  
21                   i) Total weight in kilograms of any PCBs and PCB Items in  
22 PCB Containers including the identification of container  
23 contents such as liquids and capacitors;

24                   ii) Total number of PCB Transformers and total weight in  
25 kilograms of any PCBs contained in the transformers; and  
26  
27

1                   iii) Total number of PCB Large High or Low Voltage Capacitors.

2  
3           2) For PCBs and PCB Items removed from service, the location of the  
4           initial disposal or storage facility and the name of the owner or  
5           operator of the facility.

6  
7           3) Total quantities of PCBs and PCB Items remaining in service at the  
8           end of the calendar year, using the following breakdown:

9  
10           i) Total weight in kilograms of any PCBs and PCB Items in PCB  
11           Containers, including the identification of container contents  
12           such as liquids and capacitors,

13  
14           ii) Total number of PCB Transformers and total weight in kilograms  
15           of PCBs in the transformers, and

16  
17           iii) Total number of PCB Large High or Low Voltage Capacitors.

18  
19           9. VIOLATIONS SEVEN THROUGH ELEVEN: There was no record of PCB  
20           Annual Documents having been prepared for the years 1984, 1985, 1986, 1987,  
21           and 1988.

**VIOLATIONS TWELVE THROUGH SIXTEEN**

10. **REGULATION - REGISTRATION:** 40 C.F.R. § 761.30(a)(1)(vi) states that as of December 1, 1985, all PCB Transformers (including PCB Transformers in storage for reuse) must be registered with fire response personnel with primary jurisdiction (that is, the fire department or fire brigade which would normally be called upon for the initial response to a fire involving the equipment), Information required to be provided to fire response personnel for each PCB Transformer includes:

- (A) The location of the PCB Transformer (the address of the building and the physical location of the PCB Transformer on the building site and, for an outdoor PCB Transformer, the location of the outdoor substation).
- (B) The principal constituent of the dielectric fluid in the transformer (e.g., PCBs, mineral oil, or silicone oil).
- (C) The name and telephone number of the person to contact in the event of a fire involving the equipment.

11. **VIOLATIONS TWELVE THROUGH SIXTEEN:** The PCB Transformers that are the subject of Violations One through Five were not registered with local fire response personnel prior to December 1, 1985.



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III.

PROPOSED CIVIL PENALTY

12. Section 16 of TSCA, 15 U.S.C. § 2615 authorize a civil penalty of up to \$25,000.00 per day for each violation of TSCA. Based upon the violations cited in this Complaint, the nature, circumstances, extent, and gravity of the violations alleged, Respondent's ability to pay, effect on the Respondent's ability to continue to do business, Respondent's lack of prior history of such violations, the degree of Respondent's culpability, and other such matters as justice may require, the Complainant proposes that Respondent be assessed the following penalty calculated in accordance with the Guidelines for Assessment of Civil Penalties Under Section 16 of TSCA; PCB Penalty Policy ("Penalty Policy"). A copy of the Penalty Policy accompanies this Complaint.

13. The nature, circumstances, and gravity of Respondent's failure to conduct quarterly inspections, as cited in Violations One through Five, are represented by Level Two on the matrix in the Penalty Policy. Violations Four and Five are combined because the PCB Transformers are located in the same room. The nature, circumstances, and gravity of Respondent's failure to mark the vault room door with the required PCB label, as cited in Violation Six, are represented by Level Five on the matrix. The nature, circumstances, and gravity of Respondent's failure to prepare Annual PCB Documents, as cited in Violations Seven through Eleven, are represented by Level Four on the matrix. The nature, circumstances, and gravity of Respondent's failure to

1 register the facility's PCB Transformers prior to December 1, 1985, as cited  
2 in Violations Twelve through Sixteen, are represented by Level Four on the  
3 matrix. The extent of Violation One, and Violations Seven through Sixteen  
4 are represented by "significant" on the matrix. The extent of the remaining  
5 violations is represented by "minor" on the matrix.

6  
7 14. The proposed penalty reflects a presumption of Respondent's  
8 ability to pay the penalty and to continue in business. Respondent may  
9 submit appropriate documentation to rebut that presumption during settlement  
10 negotiations. Taking into account all the above factors, the penalty for  
11 Respondent Deaconess Medical Center, as prescribed by the matrix, is \$52,500,  
12 calculated as set forth below. Based on the lack of history of prior such  
13 violations by Respondent, on the degree of culpability of Respondent, and on  
14 other matters as justice may require, no further adjustment of the penalty is  
15 indicated at this time. If appropriate, further penalty adjustments may be  
16 made during settlement negotiations.

	<u>Regulation</u>	<u>Requirement</u>	<u>Penalty Amount</u>
18			
19	1-5. 40 C.F.R. § 761.30(a)(1)(ix)	Use (Quarterly Inspections)	\$22,000
20	6. 40 C.F.R. § 761.40(j)(1)	Marking	\$ 500
21	7-11. 40 C.F.R. § 761.180(a)	Recordkeeping	\$24,000
22	12-16. 40 C.F.R. § 761.30(a)(1)(vi)	Use (Fire Registration)	<u>\$ 6,000</u>
23		TOTAL	\$52,500
24			
25			
26			
27			

IV.

NOTICE OF OPPORTUNITY TO REQUEST A HEARING

15. The Consolidated Rules of Practice, 40 C.F.R. Part 22, govern these proceedings. A copy of the Consolidated Rules of Practice accompanies this Complaint. Under those rules, Respondent has the right to request a formal hearing to contest any material fact set forth in this Complaint or to contest the appropriateness of the proposed penalty.

16. To avoid being found in default, which constitutes an admission of all material facts alleged in the Complaint and a waiver of the right to a hearing, and which will effect the assessment of the above civil penalty without further proceedings, Respondent must file with the Regional Hearing Clerk a written Answer within twenty (20) days after service of this Complaint. Respondent's Answer must clearly and directly admit, deny, or explain each of the factual allegations contained in this Complaint with regard to which Respondent has any knowledge. Where Respondent has no knowledge of a particular fact and so states, the allegation is deemed denied. Failure to deny any material factual allegation constitutes an admission of the allegation. The Answer shall also state: (1) the circumstances or arguments which are alleged to constitute the grounds of defense; (2) the facts which Respondent intends to place at issue; and, (3) whether a hearing is requested. A hearing is deemed requested should Respondent contest any material fact upon which the Complaint is based or raise any affirmative defense, or contend that the amount of the penalty

1 proposed in the Complaint is inappropriate, or claim that Respondent is  
2 entitled to judgment as a matter of law. The Answer must be sent to:

3 Regional Hearing Clerk, Region 10  
4 Environmental Protection Agency  
5 1200 Sixth Avenue, SO-125  
6 Seattle, Washington 98101

7 17. A copy of the Answer and all other documents which Respondent  
8 shall file in this action must be furnished to Bonnie L. Thie, Assistant  
9 Regional Counsel, the attorney assigned to represent EPA in this matter, at:

10 Office of Regional Counsel  
11 U.S. Environmental Protection Agency, Region 10  
12 1200 Sixth Avenue, SO-125  
13 Seattle, Washington 98101

14 V.

15 INFORMAL SETTLEMENT CONFERENCE

16 18. Whether or not a hearing is requested, Respondent may contact  
17 the above-named attorney to arrange for an informal settlement conference to  
18 discuss the facts of this case, the amount of the proposed penalty, or the  
19 possibility of settlement. An informal settlement conference does not,  
20 however, affect Respondent's obligation to file a timely written Answer to  
21 the Complaint.

22  
23 19. EPA has the authority to modify the amount of the proposed  
24 penalty, where appropriate, to reflect any settlement reached with  
25 Respondent in an informal conference. The terms of such an agreement would  
26  
27

1 be embodied in a Consent Agreement and Final Order. A Consent Agreement and  
2 Final Order entered into by and between EPA and Respondent would be binding  
3 as to all terms and conditions specified therein upon signature by both  
4 parties and by the EPA Administrative Law Judge, the Chief Judicial Officer,  
5 or the EPA Regional Administrator.

6  
7 20. Respondent is advised that, after the Complaint is issued,  
8 the Consolidated Rules of Practice prohibit any ex parte (unilateral)  
9 discussion of the merits of any action with the EPA Regional Administrator,  
10 Chief Judicial Officer, Administrative Law Judge, or any person likely to  
11 advise these officials in the decision of this case.

12  
13 VI.

14 PAYMENT OF PENALTY

15  
16 21. Instead of requesting an informal settlement conference or  
17 filing an Answer requesting a hearing, Respondent may choose to pay the  
18 proposed penalty. In order to do this, Respondent must first establish  
19 contact with the EPA attorney named in paragraph 15 of this Complaint to  
20 arrange for the preparation of a Consent Agreement and Final Order. After  
21 the Consent Agreement and Final Order has been signed by both parties and by  
22 the Regional Administrator, Respondent's payment must be made by sending a  
23 cashier's check or certified check, payable to the Treasurer, United States  
24 of America, in the amount of the penalty assessed in this Complaint to the  
25 address identified below:

1  
2 Environmental Protection Agency, Region 10  
3 (Regional Hearing Clerk)  
4 P.O. Box 360903M  
5 Pittsburgh, Pennsylvania 15251

6 with a copy of such check (and the transmittal letter, if any) sent to:

7 Regional Hearing Clerk  
8 Office of Regional Counsel  
9 Environmental Protection Agency  
10 1200 Sixth Avenue, SO-125  
11 Seattle, Washington 98101

12 ISSUED AT SEATTLE this 14<sup>th</sup> day of August, 1990.

13 *J. D. Feigner*  
14 *for* KENNETH D. FEIGNER, Chief  
15 Pesticides and Toxic Substances Branch  
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6 CERTIFICATE OF SERVICE  
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9 I hereby certify that the original of the foregoing Complaint, Docket  
10 Number 1090-04-14-2615, has been filed with the Region 10 Hearing Clerk, and  
11 that a true and correct copy thereof (with accompanying copies of the  
12 Consolidated Rules of Practice and the Polychlorinated Biphenyl (PCB) Penalty  
13 Policy) was sent by Certified Mail, Return Receipt Requested, to:  
14  
15

16 Mr. Thomas White, President  
17 Deaconess Medical Center  
18 P.O. Box 248  
19 Spokane, Washington 99210-0248  
20  
21

22 AUG 15 1990  
23 DATE

24   
25 R. V. Corsilles  
26 NAME

27 Acting Secretary  
28 Pesticides & Toxic Substances Branch  
EPA Region 10  
TITLE



Reply To  
Attn Of AT-083

**FILE COPY**

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Thomas White, President  
Deaconess Medical Center  
P.O. Box 248  
Spokane, Washington 99210-0248

JUN 18 1990

Dear Mr. White:

This concerns your April 26, 1990 letter which included documentation on the PCB Transformers cited in the Environmental Protection Agency's letter dated April 9, 1990. We have reviewed the documentation you submitted and request the following additional information:

1. Copies of the annual inspection record for 1984 for the PCB Transformer identified as ITE, serial number 20982-A01 and copies of the in-house maintenance inspection record for the PCB Transformer identified above for the period between January and June 1987.
2. Copies of the annual inspection record for 1984 for the PCB Transformer identified as ITE, serial number 20982-D01 and copies of the in-house maintenance inspection record for the PCB Transformer identified above for the period between January and June 1987.
3. Copies of the annual inspection record for 1984 for the PCB Transformer identified as ITE, serial number 20982-B01 and copies of the in-house maintenance inspection record for the PCB Transformer identified above for the period between January and June 1987.
4. Copies of the annual inspection record for 1984 for the PCB Transformer identified as General Electric, serial number G854825 and copies of the in-house maintenance inspection record for the PCB Transformer identified above for the period between January and June 1987.
5. Copies of the annual inspection record for 1984 for the PCB Transformer identified as ITE, serial number 20136-A01 and copies of the in-house maintenance inspection record for the PCB Transformer identified above for the period between January and June 1987.
6. Please provide us with the dates that the PCB Annual Reports were prepared for the years 1984, 1985, 1986, 1987, 1988, and 1989.



Within 15 days of your receipt of this letter, you should provide our office with the requested information. Inquiries and correspondence should be addressed to me at the following address: EPA Region 10, Pesticides and Toxic Substances Branch, Mail Stop AT-083, 1200 Sixth Avenue, Seattle, Washington 98101; telephone (206) 442-2584.

Sincerely,

*M. Eileen Hayes*

M. Eileen Hayes  
Environmental Protection Specialist

P 070 774 767

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982 \* U.S.G.P.O. 1984-448-014

Sent to	Thomas White Deaconess Medical Center
Street and No.	PO Box 248
P.O., State and ZIP Code	Spokane, WA
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	June 18, 1990

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:  Thomas White, President Deaconess Medical Center P.O. Box 248 Spokane, Washington 99210-0248	4. Article Number P 070 774 767 Type of Service: <input checked="" type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
5. Signature — Address X	Always obtain signature of addressee or agent and DATE DELIVERED.
6. Signature — Agent X <i>Lenny C. Robey</i>	8. Addressee's Address (ONLY if requested and fee paid)
7. Date of Delivery JUN 20 1990	



# DEACONESS

MEDICAL CENTER · SPOKANE

April 26, 1990

West 800 Fifth Avenue

Post Office Box 248  
Spokane, WA  
99210-0248

(509) 458-5800

Mr. Gil Haselberger, Chief  
Toxic Substances Section  
EPA Region 10  
1200 Sixth Avenue, AT-093  
Seattle, Washington 98101

Dear Mr. Haselberger,

Thank you for your correspondence of April 7, 1990, concerning the March 5, 1990 inspection by Michael R. Hoyles of the EPA pursuant to Section II of the TSCA. Specifically, the inspection was to determine whether activities of Deaconess Medical Center, Spokane, were in compliance with EPA regulations governing polychlorinated biphenyls (PCB), 40 CFR Part 761. We have thoroughly reviewed the violations noted, and offer the following;

Violations One Through Five

40 C.F.R. & 761.30 (A) (1) (xiii)

- (A) All of the PCB Transformers that were on site at Deaconess Medical Center did have an impervious, undrained, secondary containment capacity of at least 100 percent of the total dielectric fluid volume. Therefore, the transformers were inspected at least annually.

Violation One:

ITE, serial number 20982-A01, 2000 KVA, 315 gallons askarel, formerly located in the Chiller Building.

In addition to periodic visual inspections by our in-house Maintenance staff,

Inspection dates by outside consultants

08/83 (see attached)

01/85 (see attached)

01/85 (see attached)

01/86 (see attached)

At the time of estimation for retrofitting

06/87 (see attached)

05/88 (see attached)

At the time of retrofitting

12/88 (see related manifest and certificate of disposal dated 07/89)



# DEACONESS

MEDICAL CENTER · SPOKANE

West 800 Fifth Avenue

Post Office Box 248  
Spokane, WA  
99210-0248

(509) 458-5800

## Violation Two

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, formerly located in the North Wing Vault.

In addition to periodic visual inspections by our in-house Maintenance staff,

Inspection dates by outside consultants

08/83 (see attached)

01/85 (see attached)

01/86 (see attached)

At the time of estimation for retrofitting

06/87 (see attached)

05/88 (see attached)

At the time of Retrofitting 01/04/89 (see Related Manifest and Certificates of Disposal dated 01/04/90)

## Violation Three

ITE, serial number 20982-B01, 140 gallons Askarel, formerly located on the South Wing roof.

In addition to periodic visual inspections by our in-house Maintenance staff,

Inspection dates by outside consultants

08/83 (see attached)

01/85 (see attached)

01/85 (see attached)

01/86 (see attached)

At the time of estimation for retrofitting

06/87 (see attached)

05/88 (see attached)

And at the time of retrofitting 01/28/89 (see related Manifest and Certificate of Disposal dated 12/08/89)

## Violation Four

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

To be retrofitted in 1990.

In addition to periodic visual inspections by our in-house Maintenance staff,

Inspection dates by outside consultants

08/83 (see attached)

01/85 (see attached)

01/85 (see attached)

01/86 (see attached)

At the time of estimation for retrofitting

06/87 (see attached)

05/88 (see attached)



# DEACONESS

MEDICAL CENTER · SPOKANE

West 800 Fifth Avenue

Post Office Box 248  
Spokane, WA  
99210-0248

(509) 458-5800

## Violation Five

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault. To be retrofitted in 1990.

In addition to periodic visual inspections by our in-house Maintenance staff,

Inspection dates by outside consultants

08/83 (see attached)

01/85 (see attached)

01/85 (see attached)

01/86 (see attached)

At the time of estimation for retrofitting

06/87 (see attached)

05/88 (see attached)

Periodic visual inspections by our in-house Maintenance staff

## Violation Six

A PCB label has been added to the Sherwood Vault door.

## Violation Seven Through Eleven

See related annual reports 1984, 1985, 1986, 1987, 1988, and 1989.

## Violation Twelve Through Sixteen

PCB transformers were registered with the Spokane Fire Department in early 1986, (see letter dated March 6, 1986), and reconfirmed on the two remaining transformers by Ken Bayne to SFD Terry Reed after the EPA inspection of March 1990.

We trust that these documents and the outline of activity at Deaconess in regards to polychlorinated biphenyls (PCB) fulfills the requirements as set forth under 40 CFR Part 761.

Please contact me if further clarification is needed. We anticipate having all PCB materials off site by December of 1990.

Sincerely,

Ken Bayne

Safety and Security Manager

Dave Martin

Director of Risk Management



1986 PCB  
Annual Report  
Deaconess Medical Center  
W. 800 5th Ave. Spokane, WA

Summary: Five electrical PCB transformers containing Askarel or Pyranol are present on site at Deaconess Medical Center. All have been periodically inspected by Deaconess Maintenance Personnel and are functioning well with no fluid leaks.

All five transformers are located within an impervious concrete containment basin capable of holding at least 100% of the total volume of dielectric fluid of each transformer. The last fluid test was performed on 01/10/86. See attached related documents. Additionally, on March 6, 1986, the locations and contents of the transformers were reported to Richard Sweetland of the Spokane Fire Department to fulfill EPA regulations.

Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building.

Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault.

Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof.

Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

Ken Bayne  
Safety Manager



24  
FILE COPY

AT-083

APR 09 1990

**TSCA Referral for Administrative Civil Penalty:  
Deaconess Medical Center, Spokane, Washington**

*fn*  
Gil Haselberger, Chief  
Toxic Substances Section

*William M. Wedge*

Jackson Fox, Regional Counsel

THRU: Kenneth D. Feigner, Chief  
Pesticides and Toxic Substances Branch

On March 5, 1990, an EPA inspection was performed by Michael R. Hoyles at Deaconess Medical Center, West 800 5th Avenue, Spokane, Washington. The inspection was carried out to assess compliance with the PCB Regulations adopted by EPA pursuant to the Toxic Substances Control Act (TSCA).

During the inspection, violations of the regulations were noted, as listed in the attached proposed civil complaint.

Compliance History

This facility has not been previously inspected for TSCA PCB compliance by EPA and there is no record in EPA Region 10 files of prior noncompliance.

Request for Action

This assessment is being referred to you for consideration of enforcement action. An Administrative Civil Penalty appears to be in order because of the significance of the violations. Deaconess Medical Center was notified of the current violations by certified letter dated APR 09 1990. Following is a Civil Penalty Assessment for documented violations of TSCA.

I. Description of Current Alleged Violations

- |    |             |                             |
|----|-------------|-----------------------------|
| 1. | Violation - | Use (Quarterly Inspections) |
|    | Level -     | Two                         |
|    | Extent -    | Significant (315 gallons)   |
|    | Penalty -   | \$13,000                    |

## I. Description of Current Alleged Violations

2-3.	Violation -	Use (Quarterly Inspections)
	Level -	Two
	Extent -	Minor
	Penalty -	\$6,000 (2 x \$3,000)
4-5.	Violation -	Use (Quarterly Inspections)
	Level -	Two
	Extent -	Minor
	Penalty -	\$3,000*
6.	Violation -	Marking
	Level -	Five
	Extent -	Minor
	Penalty -	\$500
7-11.	Violation -	Recordkeeping
	Level -	Four
	Extent -	Significant
	Penalty -	\$24,000**
12-16.	Violation -	Use
	Level -	Four
	Extent -	Significant
	Penalty -	\$6,000***

\*\$3,000 penalty combined-  
transformers located in the same  
room.

\*\*\$24,000 penalty combined

\*\*\*\$6,000 penalty combined

## II. Initial Penalty Assessment

	<u>Regulation</u>	<u>Requirement</u>	<u>Penalty Amount</u>
1-5.	40 C.F.R. § 761.30(a)(1)(ix)	Use (Quarterly Inspections)	\$22,000
6.	40 C.F.R. § 761.40(j)(1)	Marking	\$ 500
7-11.	40 C.F.R. § 761.180(a)	Recordkeeping	\$24,000
12-16.	40 C.F.R. § 761.30(a)(1)(vi)	Use (Fire Registration)	<u>\$ 6,000</u>
		TOTAL	<u>\$52,500</u>

The TSCA Case Reviewer assigned to this case is Eileen Hayes, 2-2584.

Attachment



*True*  
FILE COPY

AT-083

APR 09 1990

**TSCA Referral for Administrative Civil Penalty:  
Deaconess Medical Center, Spokane, Washington**

*for* Gil Haselberger, Chief  
Toxic Substances Section

*William M. Wedge*

Jackson Fox, Regional Counsel

THRU: Kenneth D. Feigner, Chief  
Pesticides and Toxic Substances Branch

On March 5, 1990, an EPA inspection was performed by Michael R. Hoyles at Deaconess Medical Center, West 800 5th Avenue, Spokane, Washington. The inspection was carried out to assess compliance with the PCB Regulations adopted by EPA pursuant to the Toxic Substances Control Act (TSCA).

During the inspection, violations of the regulations were noted, as listed in the attached proposed civil complaint.

Compliance History

This facility has not been previously inspected for TSCA PCB compliance by EPA and there is no record in EPA Region 10 files of prior noncompliance.

Request for Action

This assessment is being referred to you for consideration of enforcement action. An Administrative Civil Penalty appears to be in order because of the significance of the violations. Deaconess Medical Center was notified of the current violations by certified letter dated APR 09 1990. Following is a Civil Penalty Assessment for documented violations of TSCA.

I. Description of Current Alleged Violations

- |    |             |                             |
|----|-------------|-----------------------------|
| 1. | Violation - | Use (Quarterly Inspections) |
|    | Level -     | Two                         |
|    | Extent -    | Significant (315 gallons)   |
|    | Penalty -   | \$13,000                    |



## I. Description of Current Alleged Violations

2-3.	Violation -	Use (Quarterly Inspections)
	Level -	Two
	Extent -	Minor
	Penalty -	\$6,000 (2 x \$3,000)
4-5.	Violation -	Use (Quarterly Inspections)
	Level -	Two
	Extent -	Minor
	Penalty -	\$3,000*
6.	Violation -	Marking
	Level -	Five
	Extent -	Minor
	Penalty -	\$500
7-11.	Violation -	Recordkeeping
	Level -	Four
	Extent -	Significant
	Penalty -	\$24,000**
12-16.	Violation -	Use
	Level -	Four
	Extent -	Significant
	Penalty -	\$6,000***

\*\$3,000 penalty combined-  
transformers located in the same  
room.

\*\*\$24,000 penalty combined

\*\*\*\$6,000 penalty combined

## II. Initial Penalty Assessment

	<u>Regulation</u>	<u>Requirement</u>	<u>Penalty Amount</u>
1-5.	40 C.F.R. § 761.30(a)(1)(ix)	Use (Quarterly Inspections)	\$22,000
6.	40 C.F.R. § 761.40(j)(1)	Marking	\$ 500
7-11.	40 C.F.R. § 761.180(a)	Recordkeeping	\$24,000
12-16.	40 C.F.R. § 761.30(a)(1)(vi)	Use (Fire Registration)	<u>\$ 6,000</u>
		TOTAL	<u>\$52,500</u>

The TSCA Case Reviewer assigned to this case is Eileen Hayes, 2-2584.

Attachment



*File*  
**FILE COPY**

APR 6 1990

Reply To  
Attn Of: AT-083

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

Thomas White, President  
Deaconess Medical Center  
P.O. Box 248  
Spokane, Washington 99210-0248

Dear Mr. White:

This concerns the March 5, 1990 inspection of Deaconess Medical Center located at West 800 5th Avenue which was performed by Michael R. Hoyles of the United States Environmental Protection Agency (EPA) pursuant to Section 11 of the Toxic Substances Control Act (TSCA). This inspection was conducted to determine whether activities at the facility were in compliance with EPA Regulations governing polychlorinated biphenyls (PCBs), 40 C.F.R. Part 761.

A review of the results of the inspection has been completed. On the basis of this review, it appears that certain violations of EPA regulations occurred at the facility. They are as follows:

**VIOLATIONS ONE THROUGH THREE**

**REGULATION - QUARTERLY INSPECTIONS:** 40 C.F.R. § 761.30(a)(1)(ix) requires that a visual inspection of each PCB Transformer (as defined in the definition of "PCB Transformer" under § 761.3) in use or stored for reuse shall be performed at least once every 3 months. These inspections may take place any time during the 3-month periods: January-March, April-June, July-September, and October-December as long as there is a minimum of 30 days between inspections. The visual inspection must include investigation for any leak of dielectric fluid on or around the transformer. The extent of the visual inspections will depend on the physical constraints of each transformer installation and should not require an electrical shutdown of the transformer being inspected.

40 C.F.R. § 761.30(a)(1)(xii) states that records of inspection and maintenance history shall be maintained at least 3 years after disposing of a transformer and shall be made available for inspection, upon request by EPA. Such records shall contain the following information for each PCB Transformer:

- (A) Its location.
- (B) The date of each visual inspection and the date that a leak was discovered, if different from the inspection date.
- (C) The person performing the inspection.
- (D) The location of any leak(s).
- (E) An estimate of the amount of dielectric fluid released from any leak.
- (F) The date of any cleanup, containment, repair, or replacement.
- (G) A description of any cleanup, containment, or repair performed.
- (H) The results of any containment and daily inspection required for uncorrected active leaks.

40 C.F.R. § 761.30(a)(1)(xiii) states that a reduced visual inspection frequency of at least once every 12 months applies to PCB Transformers that utilize either of the following risk reduction measures.

- (A) A PCB Transformer which has impervious, undrained, secondary containment capacity of at least 100 percent of the total dielectric fluid volume of all transformer so contained, or
- (B) A PCB Transformer which has been tested and found to contain less than 60,000 ppm PCBs (after 3 months of in service use if the transformer has been serviced for purposes of reducing the PCB concentration).

These inspections may take place any time during the calendar year as long as there is a minimum of 180 days between inspections.

**VIOLATIONS ONE THROUGH THREE:** There is no record of quarterly inspections having been conducted on the following three PCB Transformers prior to their removal from service.

**VIOLATION ONE:** ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, formerly located in the Chiller Building.

**VIOLATION TWO:** ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, formerly located in the North Wing Vault.

**VIOLATION THREE:** ITE, serial number 20982-B01, 140 gallons Askarel, formerly located on the South Wing roof.

#### **VIOLATIONS FOUR AND FIVE**

**VIOLATIONS FOUR AND FIVE:** There is no record of quarterly inspections having been conducted on the two in-service PCB Transformers identified below.

**VIOLATION FOUR:** General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

**VIOLATION FIVE:** ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

### **VIOLATION SIX**

**REGULATION - MARKING:** 40 C.F.R. § 761.40(j)(1) requires that as of December 1, 1985, the vault door, machinery room door, fence, hallway, or means of access, other than grates and manhole covers, to a PCB Transformer must be marked with the required PCB label. In general, a 6 inch by 6 inch PCB label is required, although the label may be reduced in size proportionately to a minimum of 2 inches by 2 inches for equipment too small to accommodate the standard 6 inch by 6 inch label.

**VIOLATION SIX:** The door to the Sherwood Transformer Vault was not marked with the required PCB label.

### **VIOLATIONS SEVEN THROUGH ELEVEN**

**REGULATION - RECORDS & MONITORING:** 40 C.F.R. § 761.180(a) states that, beginning July 2, 1978, each owner or operator of a facility using or storing at one time at least 45 kilograms (99.4 pounds) of PCBs contained in PCB Container(s), or one or more PCB Transformers, or 50 or more PCB Large High or Low Voltage Capacitors, shall develop and maintain records on the disposition of the PCBs and PCB Items. The records shall form the basis of an annual document prepared for each facility by July 1, covering the previous calendar year. The following information for each facility shall be included in the annual document:

- 1) The dates when PCBs and PCB Items are removed from service, are placed into storage for disposal, and are placed into transport for disposal. The quantities of the PCBs and PCB Items shall be indicated using the following breakdown:
  - i) Total weight in kilograms of any PCBs and PCB Items in PCB Containers including the identification of container contents such as liquids and capacitors;
  - ii) Total number of PCB Transformers and total weight in kilograms of any PCBs contained in the transformers; and
  - iii) Total number of PCB Large High or Low Voltage Capacitors.
- 2) For PCBs and PCB Items removed from service, the location of the initial disposal or storage facility and the name of the owner or operator of the facility.
- 3) Total quantities of PCBs and PCB Items remaining in service at the end of the calendar year, using the following breakdown:

- i) Total weight in kilograms of any PCBs and PCB Items in PCB Containers, including the identification of container contents such as liquids and capacitors,
- ii) Total number of PCB Transformers and total weight in kilograms of PCBs in the transformers, and
- iii) Total number of PCB Large High or Low Voltage Capacitors.

**VIOLATIONS SEVEN THROUGH ELEVEN:** There was no record of PCB Annual Documents having been prepared for the years 1984, 1985, 1986, 1987 and 1988.

**VIOLATIONS TWELVE THROUGH SIXTEEN**

**REGULATION - REGISTRATION:** 40 C.F.R. § 761.30(a)(1)(vi) states that as of December 1, 1985, all PCB Transformers (including PCB Transformers in storage for reuse) must be registered with fire response personnel with primary jurisdiction (that is, the fire department or fire brigade which would normally be called upon for the initial response to a fire involving the equipment), Information required to be provided to fire response personnel for each PCB Transformer includes:

- (A) The location of the PCB Transformer (the address of the building and the physical location of the PCB Transformer on the building site and, for an outdoor PCB Transformer, the location of the outdoor substation).
- (B) The principal constituent of the dielectric fluid in the transformer (e.g., PCBs, mineral oil, or silicone oil).
- (C) The name and telephone number of the person to contact in the event of a fire involving the equipment.

**VIOLATIONS TWELVE THROUGH SIXTEEN:** The PCB Transformers that are the subject of Violations One through Five were not registered with local fire response personnel prior to December 1, 1985.

We understand that Mr. Hoyles discussed his findings with Ken Bayne, Security and Safety Manager, so that these conditions could be immediately addressed. The Agency believes that these conditions constitute a potential threat to human health and the environment. For this reason, you should immediately take the following steps, if you have not already done so:

1. Conduct quarterly inspections of all PCB Transformers (known or imputed) at your facility and maintain records of those inspections, including all of the information prescribed at 40 C.F.R. § 761.30(a)(1)(xii).

2. Insure that the vault door, machinery room door, fence, hallway, or means of access, other than grates and manhole covers, to PCB Transformers are marked with the required PCB label.
3. Prepare and maintain PCB Annual Documents for the years 1984, 1985, 1986, 1987, and 1988 and for future years as appropriate as required by 40 C.F.R. § 761.180(a.).

You should be advised that TSCA authorizes penalties of up to \$25,000 per day for each violation. Criminal penalties are authorized for knowing and wilful violations of the law. Correcting the conditions noted in this letter may prevent future violations. However, it will not provide protection from Agency enforcement action for those violations that have already occurred. Nothing in this letter should be construed to waive or limit any remedy available to EPA by virtue of conditions at your facility or the acts or omissions of your company. We are referring this case to EPA's Region 10 Office of Regional Counsel for possible enforcement action. In this regard, you will be receiving further correspondence from EPA.

Please understand that the aforementioned steps are being recommended to avoid risk to health and the environment. Your company bears the ultimate responsibility for taking all steps necessary to comply with the law. If you have any questions regarding this letter, please contact Eileen Hayes of my staff. She can be reached at EPA Region 10, 1200 Sixth Avenue, AT-093, Seattle, Washington 98101, telephone (206) 442-2584.

Sincerely,

*Gil Haselberger*  
 Gil Haselberger, Chief  
 Toxic Substances Section

cc: Bill Danson, EPA HQ, EN-342

P 539 662 369

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

Sent to	Thomas White, President
Street and No.	Deaconess Medical Center
P.O., State and ZIP Code	P.O. Box 248
Postage	Spokane, WA 99210-0248
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. (Extra charge)
2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Mr. Thomas White, President Deaconess Medical Center P.O. Box 248 Spokane, WA 99210-0248	4. Article Number P-539 662 369 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature — Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature — Agent X	
7. Date of Delivery APR 11 1990	

04/06/90 07:26 FAX 206 2 0110

AIR/PESTICIDES

001

ACTIVITY REPORT

TRANSMISSION OK

TX/RX NO.	2506
CONNECTION TEL	8 206 438 7484
CONNECTION ID	MIKE HOYLES WOO
START TIME	04/06 07:22
USAGE TIME	03'21
PAGES	6/006



# NEW FAX NUMBER

FAX: (206) 442-0110  
FTS 399-0110

TO CONFIRM YOUR FAX,  
CALL THE PERSON YOUR FAX  
WAS SENT TO.

TO: Michael R. Hoyt  
PHONE NUMBER: 8-434-9079  
CITY, STATE / REGION: W200

FAX NUMBER: \_\_\_\_\_

FROM: E. Hayes  
PHONE NUMBER: 442-2584  
CITY, STATE / REGION: Reg 10 ATD-PTSB

TOTAL PAGES: 6

*Please concure via fax or  
phone ASAP Thanks*

ADDITIONAL REGION 10 FAX NUMBERS:

FOR FAX INFORMATION CALL (206) 442-4141 FOR THE FAX OPERATOR. GENERAL FAX # (206) 442-4672

Regional Administrator	(206) 442-0149	Management Division	(206) 442-4672
Press Office	FTS 399-0149		FTS 399-4672
Congressional Activities		Office of Regional Counsel	(206) 442-0163
Office of Enforcement			FTS 399-0163
Office of Criminal Investigation		Superfund Branch	(206) 442-0124
		RCRA Branch	FTS 399-0124
Air and Toxics Division	(206) 442-0110	Hazardous Waste Policy	
Pesticides Branch	FTS 399-0110		
Environmental Services	(206) 442-0119	Water Division	(206) 442-0165
	FTS 399-0119		FTS 399-0165



SEPA

Add  
Change  
Delete

SEPA

Requested by: Yvonne Spriggs  
Date: 5/1

FATES/FTTS

## FINDS Input Form

5H

EPA ID Number:

WAD 98847.3286

Facility Name:

Deaconess Medical Center Ctr

Street:

W 800-5<sup>th</sup> Ave

City:

Spokane

State: WA ZIP CODE: 99210

County Code :

Spokane / 063

Congressional District :

Owner Type :

P

Operator Type :

Latitude :

Lat-Long Source :

Longitude :

Lat-Long Accuracy :

SIC Codes :

Indian Land :

N (Y,N)

Federal Facility :

N (Y,N)

Comments :

HWDMS

(OSW)

PCS

(OWEP)

CDS

(OAR)

FATES

(OPTS)

CERCLIS

(OERR)

DOCKET

(OECM)

FURS

(OW)

FRDS

(ODW)

SIA

HWCTDB

(OSW)

CICIS

(OTS)

STATE SYS

Date Received:

4/3

Loaded by:

pat

Assigned:

Date:

4/3/90

Date:

Verified by:

Logged:

# VIOLATION ASSESSMENT

03/23/90

M. Eileen Hayes, PCB Case Reviewer  
(Name & title of Evaluator)

3-26-90

TSCA	X	X	(PCB)
FIFRA			

Deaconess Medical Center  
West 800 Fifth Avenue  
Spokane, Washington 99210

## ACTION TAKEN

	No Action Indicated
	Notice Noncompliance
X	Refer for Ad. Civil Penalty
	Refer for Criminal Penalty
	Refer to State

03/05/90

Date of Inspection

Michael R. Hoyles

Name of Inspector

Comments: This facility has not been previously inspected for TSCA PCB compliance by EPA and there is no record in EPA Region 10 files of prior noncompliance.

Information was provided to EPA from the City of Spokane fire department documenting this facility registering their PCB equipment with the Fire Department. Five PCB Transformers were registered with fire department. The PCB Transformers were registered in March 1986.

At the time of the inspection two PCB Transformers were still in use. The facility had disposed of three PCB Transformers in 1989.

Violations noted at the time of the inspection.

Regulation - Use (Quarterly Inspections) (5 violations): There were no records of quarterly inspections having been conducted on the three transformers that were removed from service in 1989 or on the two PCB Transformers remaining in service.

Regulation - Marking (1 violation): The Sherwood vault room door was not marked with the required PCB label. (NOTE: The facility had installed a red sign that was approximately 10 inches by 14 inches that said "PCB Transformer Room".)

Regulation - Recordkeeping (5 violations): There were no PCB Annual Documents for the years 1984, 1985, 1986, 1987, and 1988.

Recommend referral to ORC for issuance of an Administrative Complaint.

Concur

Do not Concur

FATES INSPECTION #

DATE ENTERED

CASE #

DATE ENTERED

Addendum: Regulation - Use (Fire Registration) (5 violations): Facility did not register PCB Transformers with local fire response personnel prior to December 1, 1985.

Deaconess Medical Center  
P.O. Box 248 West 800 Fifth Avenue  
Spokane, Washington 99210-0248

Date: March 5, 1990

Michael R. Hoyles, Environmental Protection Specialist  
Washington Operations Office

RECEIVED  
MAR 21 1990  
EPA REGION 10  
SPokane, WA

Compliance History:

Information was provided to EPA from the City of Spokane fire department documenting this facility registering of PCB equipment with their department. According to the information, there are five PCB transformers at this facility.

Pre-Inspection Conference:

I arrived at the facility and met Ken Bayne, Security and Safety Manager. I presented my credentials and explained the purpose of my visit. I filled out the TSCA Notice of Inspection and Confidentiality Notice, had him fill out and sign the appropriate areas, and gave him a copy of each. Ken introduced me to Charles M. Echelbarger, Operations Manager Physical Plant Department, who was more familiar with the PCB activity at this facility.

Record Review:

This facility had no annual reports. The closest thing they had to an annual report were test results from Transformer Consultants. I made a copy of one set and it is enclosed with this report.

This facility did not have any quarterly inspection reports.

According to Mr. Bayne, the facility had recently disposed of three PCB transformers and was able to produce documentation of this. I had copies of the hazardous waste manifest copied and they are enclosed. I have also included documentation which describes the five PCB transformers in question and the locations match those in the fire department letter which is also enclosed.

At the present time, they have two PCB transformers still in use that they plan to dispose of in the very near future, according to Mr. Bayne.

Inspection of Facility:

Mr. Echelbarger took me to the locations where the five transformers are in use or were in use. I thought it prudent to look at the locations where the three removed transformers were located in order to document containment and look for possible residual transformer liquids if there had been leaks.

We first went to the Shirwood transformer vault. There was no ML label on the door which was locked, however, there was a red sign approximately 10 inches by 14 inches that said "PCB transformer room". The room was 11 feet by 16 feet with a four inch high curb at the two door ways. The curb was made of steel and appeared to be sealed where it met the floor and walls. There was a drain but it was plugged with concrete. There were two transformers in this room.

The first was a General Electric, 225 KVA (S/N G854825) PYRANOL transformer. According to the name plate it contained 100 gallons. There was a ML label on it and it was not leaking.

The second was a ITE (S/N 20136-A01) transformer. According to the name plate it contained 117 gallons. It had a ML label and was not leaking.

We then went to the south wing to a room that was 8 feet by 13 feet with a ten inch high curb. Its drain had also been plugged with concrete. I saw no evidence that would lead me to conclude that the PCB transformer that had been in there had leaked. There was, of course, no indication on the door that PCB equipment was there. The door was locked. We next went to the north wing in which is located a 20 feet by 10 feet room with a six inch gap between the floor and the bottom of the metal door. The door was locked and, of course, there was no indication on the door that PCBs were present. According to Mr. Echelbarger, the concrete curbing that had been there needed to be removed in order to extract the PCB transformer. I could see where the curb had been removed. There was no indication that the PCB equipment that had been in this room had ever leaked.

We then went to the chiller room which measured 12 feet by 20 feet with a three inch high curb. As with the other two rooms, there was no indication on the door of any PCB contents and the door was locked. There was no indication on the pad that would lead me to believe that the PCB transformer had ever leaked.

#### Sample Collection:

None.

#### Closing Discussion:

I informed Mr. Bayne of a lack of annual reports and quarterly inspection reports and the lack of a ML label on the Shirwood transformer room door. I thanked him for his time and left the facility.

# PCB INSPECTION PLAN

(Must be Completed and Filed with RSCC and RQAMO for all PCB Inspections)

STATUS: Enforcement Sensitive\_\_\_\_; CBI\_\_\_\_; Open\_\_\_\_; Routine X

SITE IDENTIFIER:

Deaconess Medical Center Spokane

AUTHORIZED INSPECTOR: Michael R. Hoyles, Environmental Protection Specialist

DESIGNATED MANAGER: Michael R. Hoyles, Environmental Protection Specialist

INSPECTION TEAM OR DELEGATED AUTHORITIES: Michael R. Hoyles, Environmental Protection Specialist

RQAMO CONCURRENCE: \_\_\_\_\_ DATE \_\_\_\_\_

ESD PEER REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

Project Number: \_\_\_\_\_ Account Number: \_\_\_\_\_

Laboratory Designated: EPA\_\_\_\_; CLP\_\_\_\_; PRIVATE\_\_\_\_

Sample Numbers Assigned: \_\_\_\_\_ to \_\_\_\_\_

## SAMPLE SCHEDULE AND MILESTONES:

(This schedule must be filled out ACCURATELY and COMPLETELY)

DATE	3/5/90			
ACTIVITY	inspection			
MATRIX				
# OF SAMPLES				

Regional Sample Control Center Review: \_\_\_\_\_

Acceptance Date: \_\_\_\_\_ "open" section(s) closed on \_\_\_\_\_

Project Description and Site Location: Deaconess Medical Center  
P.O. Box 248 West 800 Fifth Avenue  
Spokane, Washington 99210-0248

Sample Rationale and Network Derivation: \_\_\_\_\_

Cooperating Agencies, Involved Parties: \_\_\_\_\_

Special Considerations or "open" requirements: \_\_\_\_\_

(Continue on back if necessary)



US ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

TOXIC SUBSTANCES CONTROL ACT

TSCA INSPECTION CONFIDENTIALITY NOTICE

Form Approved  
OMB No. 2070-0007  
Expires 3-31-88

1. INVESTIGATION IDENTIFICATION			2. FIRM NAME	
DATE 3-5-90	INSPECTOR NO. 871	DAILY SEQ. NO.	DEACONESS MEDICAL CENTER	
3. INSPECTOR NAME			4. FIRM ADDRESS	
MICHAEL R HOYLES			PO BOX 248 WEST 800 FIFTH AVE SPOKANE, WA 99210-0248	
5. INSPECTOR ADDRESS			6. CHIEF EXECUTIVE OFFICER NAME	
% Ecology PU-11 OLYMPIA, WA 98504			THOMAS ZEUFERS	
			7. TITLE	
			CHIEF	

TO ASSERT A CONFIDENTIAL BUSINESS INFORMATION CLAIM

It is possible that EPA will receive public requests for release of the information obtained during inspection of the facility above. Such requests will be handled by EPA in accordance with provisions of the Freedom of Information Act (FOIA), 5 USC 552; EPA regulations issued thereunder, 40 CFR Part 2; and the Toxic Substances Control Act (TSCA), Section 14. EPA is required to make inspection data available in response to FOIA requests unless the Administrator of the Agency determines that the data contain information entitled to confidential treatment or may be withheld from release under other exceptions of FOIA.

Any or all the information collected by EPA during the inspection may be claimed confidential if it relates to trade secrets or commercial or financial matters that you consider to be confidential business information. If you assert a CBI claim, EPA will disclose the information only to the extent, and by means of the procedures set forth in the regulations (cited above) governing EPA's treatment of confidential business information. Among other things, the regulations require that EPA notify you in advance of publicly disclosing any information you have claimed as confidential business information.

A confidential business information (CBI) claim may be asserted at any time. You may assert a CBI claim prior to, during, or after the information is collected. The declaration form was developed by the Agency to assist you in asserting a CBI claim. If it is more convenient for you to assert a CBI claim on your own stationery or by marking the individual documents or samples "TSCA confidential business information," it is not necessary for you to use this form. The inspector will be glad to answer any questions you may have regarding the Agency's CBI procedures.

While you may claim any collected information or sample as confidential business information, such claims are unlikely to be upheld if they are challenged unless the information meets the following criteria:

1. Your company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures.

2. The information is not, and has not been, reasonably obtainable without your company's consent by other persons (other than governmental bodies) by use of legitimate means (other than discovery based on showing of special need in a judicial or quasi-judicial proceeding).
3. The information is not publicly available elsewhere.
4. Disclosure of the information would cause substantial harm to your company's competitive position.

At the completion of the inspection, you will be given a receipt for all documents, samples, and other materials collected. At that time, you may make claims that some or all of the information is confidential business information.

If you are not authorized by your company to assert a CBI claim, this notice will be sent by certified mail, along with the receipt for documents, samples, and other materials to the Chief Executive Officer of your firm within 2 days of this date. The Chief Executive Officer must return a statement specifying any information which should receive confidential treatment.

The statement from the Chief Executive Officer should be addressed to:

and mailed by registered, return-receipt requested mail within 7 calendar days of receipt of this Notice. Claims may be made any time after the inspection, but inspection data will not be entered into the special security system for TSCA confidential business information until an official confidentiality claim is made. The data will be handled under the agency's routine security system unless and until a claim is made.

TO BE COMPLETED BY FACILITY OFFICIAL RECEIVING THIS NOTICE:			If there is no one on the premises of the facility who is authorized to make business confidentiality claims for the firm, a copy of this Notice and other inspection materials will be sent to the company's chief executive officer. If there is another company official who should also receive this information, please designate below.	
I have received and read the notice				
SIGNATURE		NAME		
NAME		TITLE		
Ken Bayne				
TITLE		DATE SIGNED		ADDRESS
Security/Safety Mgr		3-5-90		





US ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

TOXIC SUBSTANCES CONTROL ACT

NOTICE OF INSPECTION

Form Approved  
OMB No. 2070-0007  
Expires 3-31-88

1. INVESTIGATION IDENTIFICATION			2. TIME	3. FIRM NAME
DATE 3-5-90	INSPECTOR NO. 871	DAILY SEQ. NO.	11:20 a	DEACONESS MEDICAL CENTER
4. INSPECTOR ADDRESS			5. FIRM ADDRESS	
% Ecology PU-11 OLYMPIA, WA 98504			PO BOX 248 West 800 Fifth Ave Spokane, WA 99210-0248	

REASON FOR INSPECTION

Under the authority of Section 11 of the Toxic Substances Control Act:

☒ For the purpose of inspecting (including taking samples, photographs, statements, and other inspection activities) an establishment, facility, or other premises in which chemical substances or mixtures or articles containing same are manufactured, processed or stored, or held before or after their distribution in commerce (including records, files, papers, processes, controls, and facilities) and any conveyance being used to transport chemical substances, mixtures, or articles containing same in connection with their distribution in commerce (including records, files, papers, processes, controls, and facilities) bearing on whether the requirements of the Act applicable to the chemical substances, mixtures, or articles within or associated with such premises or conveyance have been complied with.

☐ In addition, this inspection extends to (Check appropriate blocks):

☐ A. Financial data

☐ D. Personnel data

☐ B. Sales data

☐ E. Research data

☐ C. Pricing data

The nature and extent of inspection of such data specified in A through E above is as follows:

INSPECTOR SIGNATURE 		RECIPIENT SIGNATURE 	
NAME MICHAEL R HOTZ		NAME Ken Bayne	
TITLE AIR & SOU CONTAMINATION	DATE SIGNED 3-5-90	TITLE Security Safety Mgr.	DATE SIGNED 3-5-90



1

3-5-90

# DEACONESS MEDICAL CENTER

Ken Bayne, Security & Safety Mgr

Removed 4 PCB XF THAT WERE RENOVAT  
BETWEEN 12/88 & 3/89

~~little only on one~~

3 disposed of, 2 to go

## ANNUAL REPORTS

1979: TRANSFORMER CONSULTANT REPORT

XF Survey

Chiller Bldg

gone

ITE S/N 20982 - A01 2000 KVA  
13,200 P. Volts , 480 Y/277 secondary  
315 gal Ashland

North wing Unit

ITE 20982 - A01 500 KVA  
13,200 pV , 208/20 sec V  
218 gal A

gone

RECEIVED

JAN 19 '90

EPA-WOO

*Spokane*  
**FIRE DEPARTMENT**



**ROBERT S. WILLIAMS**  
FIRE CHIEF

January 16, 1990

Mr. Michael R. Hoyles  
Air and TSCA Programs Coordinator  
Washington Operations Office  
c/o Washington Department of Ecology, PV-11  
Olympia, Washington 98504

Dear Mr. Hoyles:

In reference to your letter of 11/16/89, I am enclosing copies of correspondence that this agency has received from Deaconess Medical Center and the City's Water and Hydroelectric Services having to do with PCB transformer locations. I believe the letters are self-explanatory and address the questions that you have requested.

If there are any questions, please feel free to call.

Sincerely,

Garry Miller, Fire Marshal  
Fire Prevention Bureau

GM/df  
Enc.



**DEACONESS**  
MEDICAL CENTER • SPOKANE

mel HAYES

RECEIVED

JAN 19 '90

EPA-WOO

March 6, 1986

Richard Sweetland  
Assistant Fire Chief  
Spokane Fire Department  
W. 44 Riverside  
Spokane, WA 99201

In response to a recent E.P.A. regulation, this letter is to inform you and serve as a registration of P.C.B. oil filled transformers in Deaconess Medical Center.

The locations are as follows:

- (1) North Wing basement.
- (1) Chiller building, upper deck.
- (2) Sherwood building, courtyard area.
- (1) South wing roof.

We would be pleased to have your representative inspect the areas aforementioned. If you have any further questions, please call me.

*Richard N. Mabbott*

Richard N. Mabbott  
Director of Physical Plant

RNM/baw

RECEIVED

JAN 19 '90

EPA-WOO



July 8, 1987

Paul Olsen, Chief  
Spokane Fire Department  
W. 44 Riverside Avenue  
Spokane, WA 99201

Dear Chief Olsen:

The Water & Hydroelectric Services Department's Baxter Well Station, located at N. 4401 Aubrey L. White Parkway, has one (1) electrical transformer containing PCB dielectric cooling fluid.

The enclosed diagram shows the location of the transformer at the station.

If we need to supply additional information to comply with Federal Regulations in this matter, please let us know.

Emergency Contact Persons are:

Mike Melville  
Water Hydro Plant Foreman  
W. 3507 Taft Drive  
Spokane, WA 99208  
326-3385 (Home)  
456-2645 (Work)

Leon Sproule  
Water Hydro Plant Supt.  
Rt. #1, Box 123  
Chattaroy, WA 99003  
238-6318 (Home)  
456-2645 (Work)

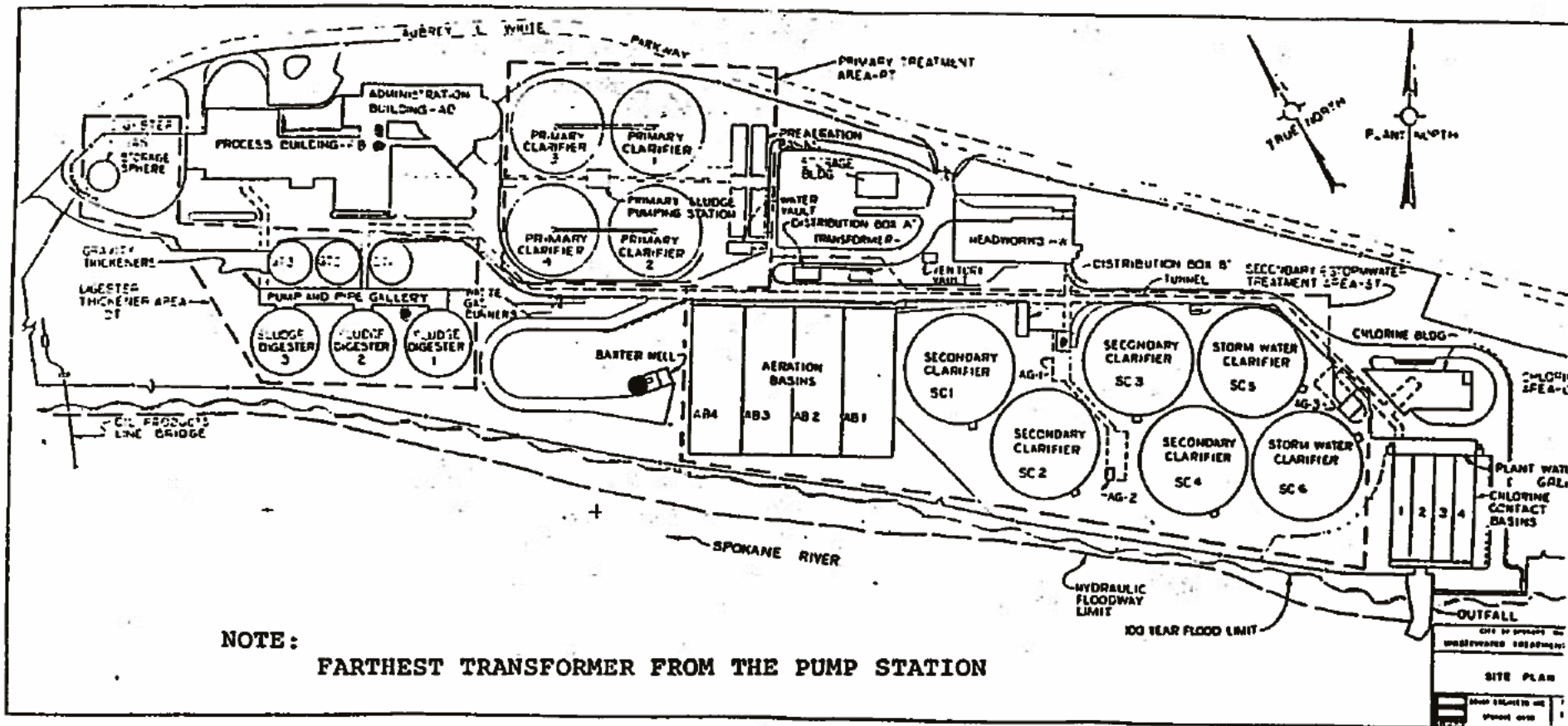
Sincerely,

*John Bjork*  
John Bjork, Director  
Water & Hydroelectric Services

JB:jlf

Enclosure

cc: Phil Williams, Director  
Environmental Programs



RECEIVED

JAN 19 '90

EPA-WOQ

*are general*

1989 PCB  
Annual Report  
Deaconess Medical Center  
W. 800 5th Ave. Spokane, WA

Summary: Two of the original five PCB transformers remain on site. Periodic inspections by Deaconess Maintenance Personnel found them to be in good condition with no fluid leaks. These transformers are in impervious concrete containment basins capable of holding at least 100% of the dielectric fluid of each transformer.

Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building. No longer on site. See Certificate of Destruction 1988 report.

Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault. No longer on site. See Certificate of Destruction 1988 report.

Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof. No longer on site. See Certificate of Destruction 1988 report.

Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

Ken Bayne  
Safety Manager

Print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of p		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Empire Hill Service P.O. Box 248 Spokane, WA 99210		4. Generator's Phone ( 509) 458-7025		6. US EPA ID Number M N D 9 8 0 7 9 1 3 2 1		A. State Manifest Document Number		B. State Generator's ID	
5. Transporter 1 Company Name Aptus		7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone 612-469-3475	
9. Designated Facility Name and Site Address Aptus P.O. Box 1328/Hwy. 169 North Coffeyville, KS 67337		10. US EPA ID Number K S D 9 8 0 9 6 4 9 9 3		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		15. Special Handling Instructions and Additional Information		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials	
a. transformer drained of askarel = 8,165 lbs. b. drums of askarel = 262 gallons c. drum of debris = 62 lbs.		Pick Up: Deaconess Hospital W. 80 5th. Ave. Spokane, WA 99210		If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.		Printed/Typed Name Neil Peterson		Signature Neil Peterson	
19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name Charles Petty		Signature Charles Petty		Month Day Year 01/28/89	
21. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name David R Hershey		Signature David R Hershey		Month Day Year 01/30/89			

SEEM 624

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address		Empire Hill Service P.O. Box 248 Spokane, WA 99210		A. State Manifest Document Number		
4. Generator's Phone ( 509 ) 458-7025				B. State Generator's ID		
5. Transporter 1 Company Name		6. US EPA ID Number	C. State Transporter's ID			
Aptus		MND980791321	D. Transporter's Phone 612-469-3475			
7. Transporter 2 Company Name		8. US EPA ID Number	E. State Transporter's ID			
			F. Transporter's Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number	G. State Facility's ID			
Aptus P.O. Box 1328/Hwy. 169 North Coffeyville, KS 67337		KSD980964993	H. Facility's Phone 316-251-6380			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a. RM RQ WASTE HAZARDOUS SUBSTANCE, SOLID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188			No. 1	Type CM	Est 3.150	P
b. RQ WASTE HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188			4	DM	165	G
c. RQ WASTE HAZARDOUS SUBSTANCE, <sup>CP</sup> LIQUID OR SOLID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188			1	DM	50	P
d.						
J. Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above			
a. transformer drained of askarel b. drums of askarel c. drum of Debris						
15. Special Handling Instructions and Additional Information			PU: Deaconess Hospital W. 80 5th. Ave. Spokane, WA 99210			
See Enclosed Contingency Plan Work Order #33050 Westinghouse #SEE88052						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name			Signature		Month Day Year	
Neil Peterson			Neil Peterson		11/14/87	
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature		Month Day Year	
Printed/Typed Name			Charles Petty		11/14/89	
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Month Day Year	
Printed/Typed Name						
19. Discrepancy Indication Space Discrepancy OK by Neil Peterson per phone 01/30/89						
A. 1 CM drained of askarel = 3,710 lbs						
B. 4 DMS of askarel = 159 gls						
C. 1 DM of Debris = 90 lbs						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month Day Year	
DAVID COOK			David Cook		10/26/89	



Westinghouse  
Electric Corporation

Advanced Industrial  
Systems Divisions

Engineering Services  
1180 Andover Park West  
Seattle WA 98188  
(206) 575 2345

NORTH  
WING  
VAULT  
WH

January 12, 1990

Empire Hill Service  
P. O. Box 248  
Spokane, Wa. 99210

Attention: Hazardous Waste Manager

Subject: Final PCB Disposal Documents/Certification of Disposal Number 9509  
Manifest Number 981 HE (Westinghouse No. 88052)  
Your Order 18521-04  
Our Order SEEM624

Gentlemen:

Enclosed please find your Certificate of Disposal from Aptus, Inc. (formerly National Electric, Inc.) which certifies that your waste material received on the manifest referenced has been properly disposed. Also enclosed are additional tracking documents and/or a detail summary of the movement of your material.

Please keep these documents along with the "Original-Return to Generator" copy of the referenced manifest previously sent to you in your permanent waste management files.

Westinghouse Engineering Service would like to express our appreciation to you and hope that we can assist you in solving your waste management needs in the future.

If there are any questions, please contact me at the number above. Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

*David E. Neustel /dz*

David E. Neustel  
Senior Engineer

DEN/dz  
Enclosures

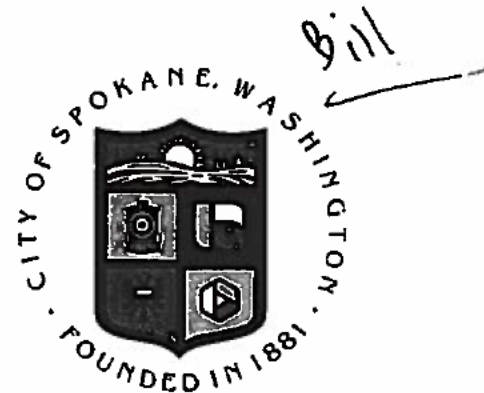
cc: Eileen Hiramoto  
cc: Westinghouse, Western Region Office, Compton

RECEIVED

January 13, 1989 JAN 18 1989

PESTICIDES & TOXIC  
SUBSTANCES BRANCH  
EPA REGION 10

Mr. Gil Haselberger, Chief  
Toxic Substances Section  
U. S. Environmental Protection Agency  
Region 10  
1200 Sixth Avenue  
Seattle, Washington 98101



Dear Mr. Haselberger:

I am responding to your letter of 12/30/88 concerning the registration of PCB transformers that have been registered with the Spokane City Fire Department. Our records show the following registrations:

1. Deaconess Medical Center, W. 800 Fifth Ave. - four transformers of unknown principal constituent located as follows:
  - A. NW basement.
  - B. Chiller building - upper deck.
  - C. Sherwood Bldg. - courtyard area.
  - D. South wing roof.

The contact person listed is Richard Mabbott, Director of Physical Plant, phone (509) 458-5800.

2. Gonzaga University - PCB transformers located as follows:
  - A. Madonna Hall, N. 1000 Cincinnati St. - three transformers 37KVA askarel transformers.
  - B. Student Union Bldg., E. 700 Desmet Ave. - one transformer aroclor (contaminated 378 parts per million).
  - C. St. Catherine/Monica Hall, N. 900 Cincinnati St. - one recovery drum storing miscellaneous equipment for maintenance, etc. PCB transformers.

Contact person is Ken Sammons, Director of University Services, E. 220 Boone Ave., phone (509) 328-4220.

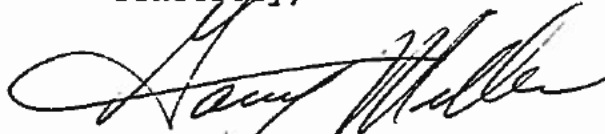
3. City Water and Hydroelectric Services Dept. - Barter Well Station, N. 4401 Aubrey L. White Parkway - one transformer unspecified principal constituent. Contact person is Mike Melville, Plant Foreman, phone (509) 456-2645.
4. W. I. Forest Products, Long Lake Division, E. 2302 Mallon Ave. - two transformers principal constituent pyronol. Also, four transformers with an unknown constituent. This agency has no contact person or phone number listed.

5. Advanced Waste Water Treatment Plant, N. 4401 Aubrey L. White Parkway - four transformers non-specified constituent fluids. Contact person is John Snell, Maintenance Supervisor, phone (509) 456-4305.
6. Whitworth College, Spokane, WA 99251 - four transformers located as follows:
  - A. Arend Hall - unspecified constituent.
  - B. Warren Hall - unspecified constituent.
  - C. McEachron Hall - unspecified constituent.
  - D. Chapel - unspecified constituent.

Contact person is Don Holden, Physical Plant Director, phone (509) 466-1000.

I have answered your questionnaire as best I can at this date. I hope that this information is helpful.

Sincerely,



Garry Miller, Fire Marshal  
Fire Prevention Bureau  
W. 44 Riverside Ave.  
Spokane, WA 99201  
Telephone (509) 456-2694

GM/df

RECEIVED

January 13, 1989 JAN 18 1989

PESTICIDES & TOXIC  
SUBSTANCES BRANCH  
EPA REGION 10

Mr. Gil Haselberger, Chief  
Toxic Substances Section  
U. S. Environmental Protection Agency  
Region 10  
1200 Sixth Avenue  
Seattle, Washington 98101



Dear Mr. Haselberger:

I am responding to your letter of 12/30/88 concerning the registration of PCB transformers that have been registered with the Spokane City Fire Department. Our records show the following registrations:

1. Deaconess Medical Center, W. 800 Fifth Ave. - four transformers of unknown principal constituent located as follows:
  - A. NW basement.
  - B. Chiller building - upper deck.
  - C. Sherwood Bldg. - courtyard area.
  - D. South wing roof.

The contact person listed is Richard Mabbott, Director of Physical Plant, phone (509) 458-5800.

2. Gonzaga University - PCB transformers located as follows:
  - A. Madonna Hall, N. 1000 Cincinnati St. - three transformers 37KVA askarel transformers.
  - B. Student Union Bldg., E. 700 Desmet Ave. - one transformer aroclor (contaminated 378 parts per million).
  - C. St. Catherine/Monica Hall, N. 900 Cincinnati St. - one recovery drum storing miscellaneous equipment for maintenance, etc. PCB transformers.

Contact person is Ken Sammons, Director of University Services, E. 220 Boone Ave., phone (509) 328-4220.

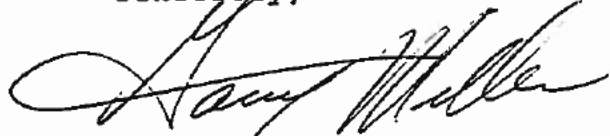
3. City Water and Hydroelectric Services Dept. - Barter Well Station, N. 4401 Aubrey L. White Parkway - one transformer unspecified principal constituent. Contact person is Mike Melville, Plant Foreman, phone (509) 456-2645.
4. W. I. Forest Products, Long Lake Division, E. 2302 Mallon Ave. - two transformers principal constituent pyronol. Also, four transformers with an unknown constituent. This agency has no contact person or phone number listed.

5. Advanced Waste Water Treatment Plant, N. 4401 Aubrey L. White Parkway - four transformers non-specified constituent fluids. Contact person is John Snell, Maintenance Supervisor, phone (509) 456-4305.
6. Whitworth College, Spokane, WA 99251 - four transformers located as follows:
  - A. Arend Hall - unspecified constituent.
  - B. Warren Hall - unspecified constituent.
  - C. McEachron Hall - unspecified constituent.
  - D. Chapel - unspecified constituent.

Contact person is Don Holden, Physical Plant Director, phone (509) 466-1000.

I have answered your questionnaire as best I can at this date. I hope that this information is helpful.

Sincerely,



Garry Miller, Fire Marshal  
Fire Prevention Bureau  
W. 44 Riverside Ave.  
Spokane, WA 99201  
Telephone (509) 456-2694

GM/df

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address		Empire <del>Bill</del> Service P.O. Box 248 Spokane, WA 99210		A. State Manifest Document Number			
4. Generator's Phone ( 509 ) 458-7025		6. US EPA ID Number		C. State Transporter's ID			
5. Transporter 1 Company Name		Aptus		D. Transporter's Phone		612-469-3475	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID			
9. Designated Facility Name and Site Address		10. US EPA ID Number		F. Transporter's Phone			
Aptus P.O. Box 1328/Hwy. 169 North Coffeyville, KS 67337		K S D 9 8 0 9 6 4 9 9 3		G. State Facility's ID			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. RQ WASTE HAZARDOUS SUBSTANCE, SOLID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188		1 No. C M		EST 03300		P	
b. RQ WASTE HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188		3 D M		01800		G	
c. RQ <del>WASTE HAZARDOUS SUBSTANCE, LIQUID OR SOLID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188</del>							
d.							
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above					
a. transformer drained of askarel							
b. drums of askarel							
15. Special Handling Instructions and Additional Information		W. 80 5th. Ave. Spokane, WA 99210					
See Enclosed Contingency Plan Work Order #33050 WESTINGHOUSE MAN. # 99288049		PU: Deaconess Hospital					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.							
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name		Signature		Month Day Year			
Neil Peterson Westinghouse		Neil Peterson		12 03 88			
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month Day Year			
Printed/Typed Name		MARIA R. ACKERSON		12 03 88			
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year			
Printed/Typed Name							
19. Discrepancy Indication Space		Discrepancy OK by Neil Peterson per phone					
A. 1 CM drained of askarel = 3,450 lbs		12/20/88					
B. 3 DMS of askarel = 121 gals							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name		Signature		Month Day Year			
Larry O'Brien		Larry O'Brien		12 08 88			

1988 PCB  
Annual Report  
Deaconess Medical Center  
W. 800 5th Ave. Spokane, WA

Summary: Retrofitting of three of the five PCB transformers began in December of 1988. All transformers were periodically inspected by Deaconess Maintenance Personnel and found to be in good condition with no fluid leaks. The remaining transformers are all in impervious concrete containment basins capable of holding at least 100% of the dielectric fluid of each transformer.

Transformer # 1 - ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building.

Removed from service on 12/01/88

(See related documents)

Transformer # 2 - ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault.

Removed from service on 12/01/88

(see related documents)

Transformer # 3 - ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof.

Removed from service on 12/03/88

(see related documents)

Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building. No longer on site.

Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault. No longer on site.

Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof. No longer on site.

Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

Westinghouse  
Electric Corporation

Advanced Industrial  
Systems Divisions



Engineering Services  
1180 Andover Park West  
Seattle WA 98188  
(206) 575 2345

August 1, 1989

Empire Health Service  
P. O. Box 248  
Spokane, Wa. 99210

Subject: Final PCB Disposal Documents/Certification of Disposal Number 7013  
Manifest Number 775HE (Westinghouse Number 88049)  
Your Order 18521-04  
Our Order SEEM624

Gentlemen:

Enclosed, please find your Certificate of Disposal from Aptus, Inc. (formerly National Electric, Inc.) which certifies that your waste material received on the manifest referenced has been properly disposed. Also enclosed are additional tracking documents and/or a detail summary of the movement of your material.

Please keep these documents along with the "Original-Return to Generator" copy of the referenced manifest previously sent to you in your permanent waste management files.

Westinghouse Engineering Service would like to express our appreciation to you and hope that we can assist you in solving your waste management needs in the future.

If there are any questions, please contact me at the number above. Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

David E. Neustel  
Senior Engineer

DEN/dz  
Enclosures

cc: Merald Dailey  
cc: Westinghouse - Western Region Office, Compton



Aptus  
Environmental Services  
  
P.O. Box 1328  
Colleyville, KS 67337  
(316) 251-6380  
(800) 292-2558  
FAX (316) 251-7498  
Sales FAX (316) 251-1095  
Confidential FAX (316) 251-0091  
Incinerator FAX (316) 251-0089

July 19, 1989

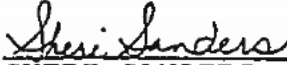
**APTUS**

## CERTIFICATE OF DISPOSAL

NO. 7013

Empire Hill Service  
P.O. Box 248  
Spokane, WA 99210

THIS IS TO CERTIFY THAT THE HAZARDOUS SUBSTANCE  
MANIFESTED TO APTUS ON APTUS DOCUMENT # 775HE WAS  
DISPOSED OF IN ACCORDANCE WITH 40 CFR 761  
AS OF 07/07/89. Manifest No. 88049

APTUS  
EPA ID # KSD980964993  
  
\_\_\_\_\_  
SHERI SANDERS  
PCB DOCUMENT ADMINISTRATOR

# Aptus

## DETAIL REPORT

PAGE NO. 1

GENERATOR  
**Empire Hill Service**  
 P.O. Box 248  
 Spokane WA 99210  
 EPA #  
 R.O.E: 503-458-7025  
 Mr. Greg Eschberger  
 CODE: K2181

CORRESPONDENT  
**Westinghouse**  
 1180 Andover Park West  
 Seattle WA 98188  
 EPA #  
 PHONE: 206-575-2345  
 Mr. Dave Nussli  
 CODE: C902

JOB # 000050  
**APT DOC # 775HE**  
 DATE OF REPORT: 07/19/88  
 DATE CHECKED IN: 12/08/88  
 DISPOSAL OPTIONS: OIL, OIL/PWR, TRW/SPA  
 SALESMAN: TOM S.  
 HOLD BACK: NO %

ITEM	DATE	JOB	TYPE	COUHT DESCRIPTION	CLS	WFSY	SERIAL	CONCEN	UNITS	STOR	DATE	WEIGHT	QUANTITY	UNIT	LOCATION	D	F	A	SENT	DISPOSAL FACILITY	UNSENT	DESTROYD	CD	REC	CD	SENT CAT	REC #
1	12/08/88	000050	TRANS	234CK70	80049	20982	801	ASK	PPM	12/03/88	3460	64.00	CFT	C	J. F. T.	12/20/88				CHEMICAL WASTE, BELLE, AL	C1521	12/21/88	12/27/88	07/19/88	C	12/18/88	15:36:3404549
2	12/08/88	000050	ASK	FROM 20982-801	ASK	PPM	12/03/88	85	8.00	GALS	C-T-02	J. T. T.	01/11/88	APTUS INCINERATOR	C219J	01/21/88	02/14/88	07/19/88							12/28/88	13:15:0922256	
3	12/08/88	000050	ASK	3 OUG	ASK	PPM	12/03/88	1573	121.00	GALS	C	J. T. T.	06/05/88	APTUS INCINERATOR	C3094	07/07/88	07/11/88	07/19/88							12/28/88	13:30:3022256	

MANIFESTS ON JOB NUMBER 000050  
 452E, 775E, 781E

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address		Empire <del>Bill</del> Service P.O. Box 248 Spokane, WA 99210		A. State Manifest Document Number		B. State Generator's ID			
4. Generator's Phone ( 509 ) 458-7025		8. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone		612-469-3475	
5. Transporter 1 Company Name		Aptus		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
7. Transporter 2 Company Name		Westinghouse		10. US EPA ID Number		G. State Facility's ID		H. Facility's Phone	
9. Designated Facility Name and Site Address		Aptus P.O. Box 1328/Hwy. 169 North Coffeyville, KS 67337		KSD980964993		316-251-6380			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. RQ WASTE HAZARDOUS SUBSTANCE, SOLID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188		1		EST. 03300		P			
b. RQ WASTE HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188		3		DMS 01800		G			
c. RQ WASTE HAZARDOUS SUBSTANCE, LIQUID OR SOLID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188									
d. Gentlemen:									
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above							
a. transformer drained of askarel									
b. drums of askarel									
15. Special Handling Instructions and Additional Information		W. 80 5th. Ave.		Spokane, WA 99210					
See Enclosed Contingency Plan									
Work Order #33050									
WESTINGHOUSE MAN. # 9288049									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.									
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name		Signature		Month Day Year					
Neil Peterson		Neil Peterson		12 03 88					
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name		Signature		Month Day Year					
MARION R. ACKERSON		MARION R. ACKERSON		12 03 88					
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name		Signature		Month Day Year					
19. Discrepancy Indication Space		Discrepancy OK by Neil Peterson per phone							
A. 1 CM drained of askarel = 3,450 lbs		12/20/88							
B. 3 DMS of askarel = 121 gals									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name		Signature		Month Day Year					
Larry O'Brien		Larry O'Brien		12 03 88					

Westinghouse  
Electric Corporation

Industry Services  
Divisions

Engineering Services  
1180 Andover Park West  
Seattle, WA 98188  
(206) 575-2345

February 24, 1989

Empire Health Service  
P.O. Box 248  
Spokane, Wa. 99210

Reference: Uniform Hazardous Waste Manifest No. 452JE  
Your Order No. 18521-04  
Our Order No. SEEM624

Gentlemen:

Please find enclosed the original Uniform Hazardous Waste Manifest for waste material removed from your site by Westinghouse.

As is required, please keep this document for your records.

Should further assistance be required, feel free to contact us any time.  
Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

*K. G. Hammond*  
K. G. Hammond, Manager  
Seattle Operations Center

KGH/dz  
Enclosure

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of p		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Empire Hill Service P.O. Box 248 Spokane, WA 99210				A. State Manifest Document Number					
4. Generator's Phone ( 509) 458-7025				B. State Generator's ID					
5. Transporter 1 Company Name Aptus		6. US EPA ID Number M N D 9 8 0 7 9 1 3 2 1		C. State Transporter's ID					
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 612-469-3475					
				E. State Transporter's ID					
				F. Transporter's Phone					
9. Designated Facility Name and Site Address Aptus P.O. Box 1328/Hwy. 169 North Coffeyville, KS 67337				10. US EPA ID Number K S D 9 8 0 9 6 4 9 9 3		G. State Facility's ID			
						H. Facility's Phone		316-251-6380	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol	
				No. Type				I. Waste No.	
a. RQ WASTE HAZARDOUS SUBSTANCE, SOLID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188				dd1 C M		EST 1110000		P	
b. RQ WASTE HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188				005 D M		10275		G	
c. RQ waste H424+dc45 substance, solid, N.O.S., (Polychlorinated Biphenyls) ORM-E NA 9188				001		00085		P	
d.									
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above					
a. transformer drained of askarel = 8,165 lbs.									
b. drums of askarel = 262 gallons									
c. drum of debris = 62 lbs.									
15. Special Handling Instructions and Additional Information				Pick Up: Deaconess Hospital W. 80 5th. Ave. Spokane, WA 99210					
See Enclosed Contingency Plan Work Order #33050 westinghouse #SEE9002									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.									
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Neil Peterson				Signature Neil Peterson				Month Day Year 10/12/89	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name Charles Petty				Signature Charles Petty				Month Day Year 10/12/89	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name				Signature				Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name David R Hershey				Signature David R Hershey				Month Day Year 10/13/89	

Westinghouse  
Electric Corporation

Advanced Industrial  
Systems Divisions



Engineering Services  
1180 Andover Park West  
Seattle WA 98188  
(206) 575 2345

December 15, 1989

Empire Hill Service  
P. O. Box 248  
Spokane, Wa. 99210

Attention: Hazardous Waste Manager

Subject: Final PCB Disposal Documents/Certification of Disposal Number 9129  
Manifest Number 452JE (Westinghouse No. SEE9002)  
Your Order 18521-04  
Our Order SEEM624

Gentlemen:

Enclosed please find your Certificate of Disposal from Aptus, Inc. (formerly National Electric, Inc.) which certifies that your waste material received on the manifest referenced has been properly disposed. Also enclosed are additional tracking documents and/or a detail summary of the movement of your material.

Please keep these documents along with the "Original-Return to Generator" copy of the referenced manifest previously sent to you in your permanent waste management files.

Westinghouse Engineering Service would like to express our appreciation to you and hope that we can assist you in solving your waste management needs in the future.

If there are any questions, please contact me at the number above. Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

*David E. Neustel/dz*

David E. Neustel  
Senior Engineer

DEN/dz  
Enclosures

cc: Merald Dailey  
cc: Westinghouse, Western Region Office, Compton

Aplus  
Environmental Services  
P.O. Box 1328  
Colleyville, KS 67337  
(316) 251-6380  
(800) 292-2558  
FAX (316) 251-7498  
Sales FAX (316) 251-1095  
Confidential FAX (316) 251-0091  
Incinerator FAX (316) 251-0089

December 8, 1989

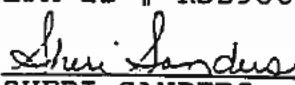
**APTUS**

## CERTIFICATE OF DISPOSAL

NO. 9129

Empire Hill Service  
P.O. Box 248  
Spokane, WA 99210

THIS IS TO CERTIFY THAT THE HAZARDOUS SUBSTANCE  
MANIFESTED TO APTUS ON APTUS DOCUMENT # 452JE WAS  
DISPOSED OF IN ACCORDANCE WITH 40 CFR 761  
AS OF 11/15/89.

APTUS  
EPA ID # KSD980964993  
  
SHERI SANDERS  
PCB DOCUMENT ADMINISTRATOR

**FORM HAZARDOUS WASTE MANIFEST**

1. Generator's USEPA ID No. **452J**

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

Generator's Name and Mailing Address: **Empire Hill Service, P.O. Box 248, Spokane, WA 99210**

Generator's Phone: **(509) 458-7025**

A. State Manifest Document Number: **251-0091**

B. State Generator's ID: **251-0089**

Generator 1 Company Name: **us**

Generator 2 Company Name: **us**

6. US EPA ID Number: **MND980791321**

8. US EPA ID Number: **us**

C. State Transporter's ID: **251-0091**

D. Transporter's Phone: **612-469-3475**

E. State Transporter's ID: **251-0089**

Facility Name and Site Address: **Box 1328/Hwy. 169 North, Keyville, KS 67337**

10. US EPA ID Number: **KSD980964993**

F. Transporter's Phone: **316-251-6380**

G. State Facility's ID: **251-0091**

H. Facility's Phone: **316-251-6380**

Waste Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
WASTE HAZARDOUS SUBSTANCE, SOLID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188	11	CM	111000	P	
WASTE HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188	10	DM	10275	G	
Waste Hazardous Substance, Solid, N.O.S., (Polychlorinated Biphenyls) ORM-E NA 9188	11	CM	110095	P	

Material Descriptions for Materials Listed Above:

Transformer drained of askarel = 8,165 lbs.

Drums of askarel = 262 gallons

Drum of debris = 62 lbs.

K. Handling Codes for Wastes Listed Above:

Additional Handling Instructions and Additional Information:

Pick Up: **Deaconess Hospital, W. 80 5th. Ave., Spokane, WA 99210**

Enclosed Contingency Plan: **Order #33050 Westinghouse #SEE9002**

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the waste management method that is available to me and that I can afford.

Generator's Name: **Neil Peterson**

Signature: **Neil Peterson**

Month Day Year: **10/12/89**

Transporter 1 Acknowledgement of Receipt of Materials:

Name: **Charles Petty**

Signature: **Charles Petty**

Month Day Year: **10/12/89**

Transporter 2 Acknowledgement of Receipt of Materials:

Name: **us**

Signature: **us**

Month Day Year: **us**

Emergency Indication Space:

Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Name: **David R Hershey**

Signature: **David R Hershey**

Month Day Year: **10/13/89**



# Aptus DETAIL REPORT

PAGE NO. 1

GENERATOR  
Empire Hill Service  
P O. Box 248  
Stockport VA 22210  
EPA #  
PHONE: 509-458-7025  
Mr. Chet Echeitberger  
CODE: K2181

CORRESPONDENT  
Westinghouse  
1180 Arroyo Park West  
Seattle WA 98108  
EPA #  
PHONE: 206-575-2345  
Mr. Dave Nelson  
CODE: C9C32

JOB # 00000  
APT DOC # 452JE  
DATE OF REPORT: 12/08/89  
DATE CHECKED IN: 01/30/89  
DISPOSAL OPTIONS: OEB,OIL,APR,TRH/EPA  
SALESMAN: TOM S.  
  
HOLD BACK: 10 %

ITEM DATE	JOB	TYPE	QUANTITY	DESCRIPTION	OLG MFG#	SERIAL	CONCEN UNITS	STOPDATE	WEIGHT	QUANTITY	UNIT	LOCATION	D	F	A	SENT	DISPOSAL FACILITY	WASSENT DESTROYD	CD REC	CD SENT CAT	REC #			
1 01/30/89	030050	ASK		FROM 20982-401			ASK	PPM	12/17/89	135	10	00	GALS	C-1-01	.T.	T	.T.	02/20/89	APTUS INCINERATOR	C68U	04/13/89	04/17/89	12/08/89	12/09/8909:04:28C43021
2 01/30/89	030050	ASK		1 DM			ASK	PPM	12/01/89	678	52	00	GALS	C-3-4	.T.	T	.T.	11/08/89	APTUS INCINERATOR	C6400	11/15/89	11/30/89	12/08/89	01/26/8909:15:18C20172
3 01/30/89	030050	OEB		PLASTIC OIL PANS					12/01/89	62	1	00	DM	C-E/0	.T.	T	T	03/04/89	CHEMICAL WASTE, BUELLE, AL	C696J	03/06/89	03/08/89	12/08/89	4-1 12/08/8910:07:34C43082
4 01/30/89	030050	TRANS		21X53X78	20982-401		ASK	PPM	12/17/89	8190	148	00	CUFT	C	T	F	T	02/01/89	CHEMICAL WASTE, BUELLE, AL	C580J	02/02/89	02/13/89	12/08/89	C 01/31/8922:00:54C25887
5 01/30/89	030050	ASK		4 OLS			ASK	PPM	12/01/89	2730	240	00	GALS	C-3-4	.T.	T	.T.	11/03/89	APTUS INCINERATOR	C439D	11/14/89	11/18/89	12/08/89	11/08/8912:09:40C31285

MANIFESTS ON JOB NUMBER 030050  
452JE, 1011E

Westinghouse  
Electric Corporation

Advanced Industrial  
Systems Divisions

Engineering Services  
1180 Andover Park West  
Seattle WA 98188  
(206) 575 2345

January 12, 1990

Empire Hill Service  
P. O. Box 248  
Spokane, Wa. 99210

Attention: Hazardous Waste Manager

Subject: Final PCB Disposal Documents/Certification of Disposal Number 9509  
Manifest Number 981 HE (Westinghouse No. 88052)  
Your Order 18521-04  
Our Order SEEM624

Gentlemen:

Enclosed please find your Certificate of Disposal from Aptus, Inc. (formerly National Electric, Inc.) which certifies that your waste material received on the manifest referenced has been properly disposed. Also enclosed are additional tracking documents and/or a detail summary of the movement of your material.

Please keep these documents along with the "Original-Return to Generator" copy of the referenced manifest previously sent to you in your permanent waste management files.

Westinghouse Engineering Service would like to express our appreciation to you and hope that we can assist you in solving your waste management needs in the future.

If there are any questions, please contact me at the number above. Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

*David E. Neustel/dz*

David E. Neustel  
Senior Engineer

DEN/dz  
Enclosures

cc: Eileen Hiramoto  
cc: Westinghouse, Western Region Office, Compton

② 88-052  
SEEM 604

Aptus  
Environmental Services

P.O. Box 1328  
Colleyville, KS 67337  
(316) 251-6380  
(800) 292-2558  
FAX (316) 251-7498  
Sales FAX (316) 251-1095  
Confidential FAX (316) 251-0091  
Incinerator FAX (316) 251-0089

January 4, 1990

**APTUS**

## CERTIFICATE OF DISPOSAL

NO. 9509

Empire Health Service  
P.O. Box 248  
Spokane, WA 99210

THIS IS TO CERTIFY THAT THE HAZARDOUS SUBSTANCE  
MANIFESTED TO **APTUS** ON APTUS DOCUMENT # 781HE WAS  
DISPOSED OF IN ACCORDANCE WITH 40 CFR 761  
AS OF 12/13/89.

**APTUS**

EPA ID # KSD980964993

*Sheri Sanders*

SHERI SANDERS

PCB DOCUMENT ADMINISTRATOR

# Aptus DETAIL REPORT

PAGE NO. 1

GENERATOR  
Empire Health Service  
P O Box 249  
Spartanburg VA 22210  
EPA #  
PHONE: 503-458-7025  
Mr. Chel Eschebarger  
CODE: K2191

CORRESPONDENT  
Westinghouse  
1183 Andover Park West  
Seattle WA 98188  
EPA #  
PHONE: 206-575-2345  
Mr. Dave Nussel  
CODE: C8032

JOB # 000050  
APT DOC # 781HE  
DATE OF REPORT: 01/04/90  
DATE CHECKED IN: 01/26/89  
DISPOSAL OPTIONS: DEB, OIL, PM, TRM/EPA  
SALESMAN: TOM S.  
  
HOLD BACK: 10 %

ITEM	DATE	JOB	TYPE	COUNT	DESCRIPTION	CLS WFT SERIAL	CONDEN UNITS	STORDATE	WEIGHT	QUANTITY	UNIT	LOCATION	D	F	A	SENT	DISPOSAL FACILITY	MANSENT	DESTROYD	CD REC	CD SENT	CAT	REC #		
1	01/26/89	000050	ASK	3	CLG		ASK	PM	12/01/88	1378	105	00	CLS	C-1-24	.T.	.T.	.T.	11/01/89	APTUS INCINERATOR	C3460	11/12/89	11/13/89	01/04/90	11/01/89 15:42:15033546	
2	01/26/89	000050	DEB1		S,R,P,F,METAL PAN				12/01/88	90	1.00	DM	C-3-11	.T.	.T.	.T.	11/16/89	APTUS INCINERATOR	C7540	12/07/89	12/15/89	01/04/90	A-1	11/01/89 17:01:18033561	
3	01/26/89	000050	ASK		FROM 20982-001		ASK	PM	01/14/89	160	11	00	CLS	C-1-03	.T.	.T.	.T.	05/16/89	APTUS INCINERATOR	C311M	06/15/89	06/16/89	01/04/90	11/01/89 17:08:18033563	
4	01/26/89	000050	TRANS		4260472	20982-001	ASK	PM	01/14/89	3700	88	00	CLF	C-10-1M	.T.	.F.	.T.	01/26/89	U.S. ECOLOGY, BEATTY, NV	C411J	01/30/89	02/08/89	01/04/90	C	01/24/89 17:30:27025608
5	01/26/89	000050	ASK	1	DM		ASK	PM	12/01/88	689	53	00	CLS	C-3-4	.T.	.T.	.T.	11/16/89	APTUS INCINERATOR	C8020	12/13/89	12/15/89	01/04/90		10/20/89 15:10:57025491

MANIFESTS ON JOB NUMBER 000050  
452.E, 781.E

② 88-052  
SECM-624



Westinghouse  
Electric Corporation

Industry Services  
Divisions

Engineering Services  
1180 Andover Park West  
Seattle, WA 98188  
(206) 575-2345

February 13, 1989

Empire Health Service  
P.O. Box 248  
Spokane, Wa. 99210

Reference: Uniform Hazardous Waste Manifest No. 781HE  
Your Order No. 18521-04  
Our Order No. SEEM624

Gentlemen:

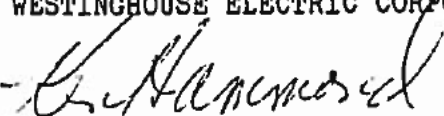
Please find enclosed the original Uniform Hazardous Waste Manifest for waste material removed from your site by Westinghouse.

As is required, please keep this document for your records.

Should further assistance be required, feel free to contact us any time.  
Thank you for this opportunity to be of service.

Sincerely,

WESTINGHOUSE ELECTRIC CORPORATION

  
K. G. Hammond, Manager  
Seattle Operations Center

KGH/dz  
Enclosure

SEEM 624

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address		Empire Hill Service P.O. Box 248 Spokane, WA 99210		A. State Manifest Document Number		
4. Generator's Phone ( 509 ) 458-7025				B. State Generator's ID		
5. Transporter 1 Company Name		Aptus		C. State Transporter's ID		
6. US EPA ID Number		MND980791321		D. Transporter's Phone		612-469-3475
7. Transporter 2 Company Name				E. State Transporter's ID		
8. US EPA ID Number				F. Transporter's Phone		
9. Designated Facility Name and Site Address		Aptus P.O. Box 1328/Hwy. 169 North Coffeyville, KS 67337		G. State Facility's ID		
10. US EPA ID Number		KSD980964993		H. Facility's Phone		316-251-6380
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. RQ WASTE HAZARDOUS SUBSTANCE, SOLID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188			No. 1	Type CM	Est. 8.150	P
b. RQ WASTE HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188			No. 4	Type DM	165	G
c. RQ WASTE HAZARDOUS SUBSTANCE, LIQUID OR SOLID, N.O.S., (POLYCHLORINATED BIPHENYLS) ORM-E NA 9188			No. 1	Type DM	50	P
d.						
J. Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above			
a. transformer drained of askarel b. drums of askarel c. drum of debris						
15. Special Handling Instructions and Additional Information			PU: Deaconess Hospital W. 80 5th. Ave. Spokane, WA 99210			
See Enclosed Contingency Plan Work Order #33050 Upstg house # SEE88052						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name			Signature		Month Day Year	
Neil Peterson			Neil Peterson		1/14/89	
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature		Month Day Year	
Printed/Typed Name			Signature		Month Day Year	
Charles Petty			Charles Petty		1/14/89	
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Month Day Year	
Printed/Typed Name			Signature		Month Day Year	
19. Discrepancy Indication Space						
Discrepancy OK by Neil Peterson per phone 01/30/89						
A. 1 CM drained of askarel = 3,710 lbs x .30 = 1113						
B. 4 DMS of askarel = 159 gls x 12.5 x .30 = 596.25						
C. 1 DM of debris = 90 lbs						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month Day Year	
DAVID COOK			David Cook		10/26/89	

**D.P. CODE**

DEPARTMENT REPRESENTATIVE APPROVAL:

PHONE NUMBER (206) 575-2345

~~DEPARTMENT MANAGER APPROVAL IF REQUIRED~~

**DIVISION DIRECTOR APPROVAL - (IF REQUIRED)**

EXECUTIVE OR VICE PRESIDENT APPROVAL (IF REQUIRED)

REQUISITIONS WITHOUT THE APPROPRIATE  
APPROVAL WILL BE RETURNED TO REQUESTOR.

VENDOR NAME Vestinghouse Electric No: 941

TAX**FREIGHT**

	<b>TOTAL</b>
--	--------------

**PURCHASING APPROVAL**

De.

WORK COPY PURCHASE ORDER

FACILITY ID: 04 DEACONNESS MEDICAL CENTER

P.O. TYPE: MANUAL

P.O. NUMBER: 0018521-04 P.O. DATE: 05/31/88

P.O. STATUS: COMPLETE

VENDOR: 00941 WESTINGHOUSE ELECTRIC CORP  
E 2025 TRENT

CUSTOMER #:

SPOKANE

WA 99202-

CONTACT NAME AND PHONE: LARRY

509 535-3082

PAYMENT TERMS: NET 30 DAYS

FREIGHT TERMS: WILL CALL

ORD METHOD: PH ORDERED BY: DC

CONFIRM BY: DC REQD DEL: 03/03/89

\*\* P.O. DETAIL \*\*

ST	ITEM #	QTY	U/M	VENDOR CATLG	RECV COST	EXT COST	G/L CODE
08	999901	3	EA.	0000	40966.6700	122900.0100	8282-7710
	R4V. 3 PCB TRANSFORMERS, PRVD				6 INSTL 3 SILICONE TRANSFORMER		RECVD
							06/01/88

DELIVER TO: PLANT ENGINEERING

PER PROPOSAL DATED 4-7-88 COST NOT TO EXCEED 122900.00 BASED  
ON THREE SEPARATE WEEKEND OUTAGES  
COMPLETION APPX 40 WEEKS OR 03/03/89

DC



## II. Description of Project

This project covers the turnkey removal, disposal and replacement of three PCB type transformers presently in service at Deaconess Medical Center, Spokane, Wa. The replacement silicone filled transformers shall be designed/installed to fit between existing H.V. and L.V. air terminal chambers.

All PCB fluids and materials are to be handled, transported and disposed in accordance with current local, State and Federal regulations. Each transformer will have its PCB fluid pumped to D.O.T. drums prior to rigging-out.

Installation is scheduled for the fall 1988 whereby three closely coordinated shutdowns will be planned between Deaconess Medical Center and Westinghouse Engineering Service. Each PCB transformer will be removed and a new silicone unit installed during successive weekday nighttime hours. As an example: one unit Tuesday evening, one unit Wednesday evening, and the last unit Thursday evening. An alternate plan will be to remove and replace each transformer on separate nighttime weekend outages (3).

The PCB transformers to be removed on this project are identified as follows:

1. Phase Two Transformer  
2000KVA      315 Gallons      11,800 lbs. total wt.
2. Northwing Transformer  
500KVA      218 Gallons      8,050 lbs. total wt.
3. Southwing Transformer (roof vault)  
500KVA      140 Gallons      5,100 lbs. total wt.

The replacement transformers shall have KVA ratings identical to the PCB units being removed and shall be indoor silicone filled.

### III. Westinghouse Responsibilities

Specific responsibilities include the following items which are based on information obtained during site inspections and meetings with Deaconess Medical Center representatives.

- III.1 Turnkey project management to schedule and coordinate all activities between customer representatives and Westinghouse or its subcontractors.
- III.2 Attend pre-shutdown meeting (1 day) to discuss details and procedures to be used by Westinghouse. Discussions to include review of customer safety requirements and on site spill control measures to be used by Westinghouse.
- III.3 Engineering to design replacement transformers to fit between existing high and low voltage air terminal chambers.
- III.4 Furnish three replacement transformers in accordance with technical specifications Section V.
- III.5 Provide labor and equipment to inspect and test replacement transformers after delivery to verify condition and design criteria prior to changeout. Westinghouse will provide off site storage of transformers in the Spokane area.
- III.6 Temporary power for PCB pumps, hand tools and lighting during the shutdown.
- III.7 Provide labor, materials and equipment to disconnect existing transformer, drain PCB fluids, remove drained transformer and transport to approved facility for flushing in accordance with EPA regulations.
- III.8 Provide labor, materials and equipment to install replacement transformer, test, and witness energization.
- III.9 Transportation and disposal of flushed transformer carcass and other contaminated solids to EPA approved chemical waste landfill.
- III.10 Transportation of PCB fluids to EPA approved incineration facility, Pyrochem, for disposal in accordance with EPA regulations.
- III.11 Provide assistance in obtaining required permits and manifests necessary for the project.
- III.12 Provide certificate of destruction to verify and document hazardous waste disposal.
- III.13 Provide final project report including new equipment instruction books, test data and drawings for each new transformer.

#### IV. Customer Responsibilities

The nature of this project is to provide "turnkey" project management by Westinghouse. Hence Deaconess Medical Center shall have minimum responsibilities as listed below:

- IV.1      Qualified representative to work with Westinghouse project engineer for coordination purposes before and during shutdown.
- IV.2      Free and clear access to equipment during shutdown activity.  
Estimated duration: 12 hours
- IV.3      Copies of all available drawings and instruction books pertaining to facilities and equipment involved in this project.
- IV.4      Information pertaining to Deaconess Medical Center's health and safety policies.
- IV.5      Qualified personnel to de-energize (energize) and "tag-out" feeders serving equipment covered in this proposal.

## V. Technical Specifications

### V.1 Technical Specifications - Field Testing

#### Mechanical Checks - Liquid Filled Transformers

1. Inspect transformer for proper liquid level in tanks, compartments, and bushings. Inspect gasketed items, cooling assemblies, terminal and tap chambers for signs of leakage. Note gas pressure as positive vacuum or zero.
2. Inspect bushings for chipped or cracked porcelain and oil leakage (if applicable).
3. Check external bolted electrical connections and grounding for tightness.

#### Electrical Checks - Liquid Filled Transformers

1. Sample dielectric fluid from tank. Analyze each sample to insure adequate insulation and chemical properties, as indicated.
  - a. Dielectric Strength ASTM D877 or D1816
2. Check insulation resistance (winding to winding, and each winding to ground) with a DC megohmmeter.
3. Check turns ratio in all tap positions.
4. Perform power factor tests to winding and each winding to ground.
5. Check auxiliary devices for proper operation.

## V.2 Technical Specifications - Transformer Factory Tests

The following standard tests will be made on the transformers. The tests will be made in accordance with the latest revision of ANSI Code C57.12.91 where applicable.

1. Resistance measurements of all windings on the rated voltage connection of each unit and at the tap extremes of one unit only of a given rating on an order.
2. Ratio tests on the rated voltage connection and on all tap connections.
3. Polarity and phase-relation tests on the rated voltage connection.
4. No-load loss and excitation current at rated voltage on the rated voltage connection.
5. Impedance and load loss at rated current on the rated voltage connection of each unit and on the tap extremes of one unit only of given rating on an order.
6. Applied potential tests.
7. Induced potential tests.

The following design tests are made on a sufficient number of transformers and ratings to demonstrate compliance with these standards. Design tests are not repeated unless the design of the transformer is changed so as to modify the reliability of predicted results.

1. Audible sound level
2. Temperature rise
3. Impulse

WESTINGHOUSE ENGINEERING SERVICE  
PROPOSED REPLACEMENT TRANSFORMER SPECIFICATIONS

ITEM NO: 1

CUSTOMER DESIGNATION: "PHASE TWO TRANSFORMER"

- 1 - 2000KVA POWER CENTER TRANSFORMER, 3 PHASE, 60 HERTZ, COMPLETE WITH RATINGS, CHARACTERISTICS, AND FEATURES LISTED BELOW:

COOLING MEDIUM: LESS-FLAMMABLE LIQUID - SILICONE

LOAD RATINGS: 2000KVA AT 65° C RISE SELF COOLED  
ABOVE A 30° C AVERAGE AMBIENT TEMPERATURE

VOLTAGE RATINGS AND WINDING CONNECTION:

	"H" WINDING	"X" WINDING
VOLTAGE:	13.2 KV	480Y/277
BIL:	95 KV	30 KV
CONNECTION:	DELTA	WYE
TAPS:	2 - 2½ % FCAN/FCBN	
TERMINATIONS:	Z BAR FLANGE	Z BAR FLANGE
COOLING CLASS	OA/FFA (FUTURE FORCED AIR)	
IMPEDANCE:	5.75 % ON A BASE OF 2000KVA AND SUBJECT TO STANDARD TOLERANCE OF ± 7.5 %	
TAP CHANGER:	DE-ENERGIZED TAP CHANGER FOR CHANGING TAPS UNDER NO LOAD CONDITIONS	
OTHER FEATURES:	DESIGNED TO FIT IN PLACE OF EXISTING PCB TRANSFORMER AND MAINTAIN SAME BUSHING HT AND SPACING AS ORINGINAL PCB TRANSF.	

ALUMINUM H.V. AND L.V. WINDINGS

WESTINGHOUSE ENGINEERING SERVICE  
PROPOSED REPLACEMENT TRANSFORMER SPECIFICATIONS

ITEM NO: 2

CUSTOMER DESIGNATION: "NORTH WING TRANSFORMER"

- 1 - 500 KVA POWER CENTER TRANSFORMER, 3 PHASE, 60 HERTZ, COMPLETE WITH RATINGS, CHARACTERISTICS, AND FEATURES LISTED BELOW:

COOLING MEDIUM: LESS-FLAMMABLE LIQUID - SILICONE

LOAD RATINGS: 500 KVA AT 65° C RISE SELF COOLED  
ABOVE A 30° C AVERAGE AMBIENT TEMPERATURE

VOLTAGE RATINGS AND WINDING CONNECTION:

	"H" WINDING	"X" WINDING
VOLTAGE:	13.2 KV	208Y/120
BIL:	95 KV	30 KV
CONNECTION:	DELTA	WYE
TAPS:	2 - 2½ % FCAN/FCBN	
TERMINATIONS:	Z BAR FLANGE	Z BAR FLANGE
COOLING CLASS	OA AND FFA IF ITS A NO CHARGE ADDITION	
IMPEDANCE:	(STD)% ON A BASE OF 500 KVA AND SUBJECT TO STANDARD TOLERANCE OF ± 7.5 %	
TAP CHANGER:	DE-ENERGIZED TAP CHANGER FOR CHANGING TAPS UNDER NO LOAD CONDITIONS	
OTHER FEATURES:	DESIGNED TO FIT IN PLACE OF EXISTING PCB TRANSFORMER AND MAINTAIN SAME BUSHING HT AND SPACING AS ORINGINAL PCB TRANSF.  ALUMINUM H.V. AND L.V. WINDINGS	

WESTINGHOUSE ENGINEERING SERVICE  
PROPOSED REPLACEMENT TRANSFORMER SPECIFICATIONS

ITEM NO: 3

CUSTOMER DESIGNATION: "SOUTH WING TRANSFORMER"

- 1 - 500 KVA POWER CENTER TRANSFORMER, 3 PHASE, 60 HERTZ, COMPLETE WITH RATINGS, CHARACTERISTICS, AND FEATURES LISTED BELOW:

COOLING MEDIUM: LESS-FLAMMABLE LIQUID - SILICONE

LOAD RATINGS: 500 KVA AT 65° C RISE SELF COOLED  
ABOVE A 30° C AVERAGE AMBIENT TEMPERATURE

VOLTAGE RATINGS AND WINDING CONNECTION:

	"H" WINDING	"X" WINDING
VOLTAGE:	13.2 KV	208Y/120
BIL:	95 KV	30 KV
CONNECTION:	DELTA	WYE
TAPS:	2 - 2½ % FCAN/FCBN	
TERMINATIONS:	Z BAR FLANGE	Z BAR FLANGE
COOLING CLASS	OA AND FFA IF ITS A NO CHARGE ADDITION	
IMPEDANCE:	(STD)% ON A BASE OF 500 KVA AND SUBJECT TO STANDARD TOLERANCE OF ± 7.5 %	
TAP CHANGER:	DE-ENERGIZED TAP CHANGER FOR CHANGING TAPS UNDER NO LOAD CONDITIONS	
OTHER FEATURES:	DESIGNED TO FIT IN PLACE OF EXISTING PCB TRANSFORMER AND MAINTAIN SAME BUSHING HT AND SPACING AS ORIGINAL PCB TRANSF.	
	ALUMINUM H.V. AND L.V. WINDINGS	



1987 PCB  
Annual Report  
Deaconess Medical Center  
W. 800 5th Ave. Spokane, WA

Summary: Five electrical PCB transformers containing Askarel or Pyranol are present on site at Deaconess Medical Center. All have been periodically inspected by Deaconess Maintenance Personnel and are functioning well with no fluid leaks.

All five transformers are located within an impervious concrete containment basin capable of holding at least 100% of the total volume of dielectric fluid of each transformer. See attached related documents. The transformers were inspected in May of 1987 by the General Electric Company for the purpose of estimating the costs of the retrofitting and disposal of the transformers containing PCB's.

Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building.

Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault.

Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof.

Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

Ken Bayne  
Safety Manager

# GENERAL ELECTRIC

QUOTATION 437A00012  
 CONTRACT NO. \_\_\_\_\_  
 DATE June 2, 1987

## APPARATUS AND ENGINEERING SERVICES

NOTICE: This quotation is void unless accepted within 30 days from date hereof and is subject to change upon notice prior to acceptance.

Mr. Richard N. Mabboit  
 DEACONESS HOSPITAL  
 Post Office Box 248  
 Spokane, WA 99210-0248

Work Description, Completion, Price — General Electric Company (Company) agrees as follows:

The Industry Services Department (ISD) of the General Electric Company is pleased to offer the following proposal for PCB transformer removal, disposal, and installation of new transformers (retrofit).

### ITEM(S) TO BE RETROFIT AND DISPOSED:

- Item 1: One (1) 2000 kVA transformer containing 315 gallons of Askarel (Chiller Building)
- Item 2: One (1) 500 kVA transformer containing 218 gallons of Askarel (North Wing)
- Item 3: One (1) 225 kVA transformer containing 100 gallons of Askarel (Sherwood Building)

### Definition — Complete Installation/Maintenance Service

Complete Installation/Maintenance Service can consist of a combination of planning, management, labor, tools, and miscellaneous materials to install, assemble, connect, interconnect, and start-up and/or maintain the equipment involved.

This Contract is subject to STANDARD CONDITIONS FOR SERVICES on reverse side

GENERAL ELECTRIC COMPANY

*K. C. Kadera*  
 Kenneth C. Kadera  
 Sales Engineer  
 Industry Services Department  
 GENERAL ELECTRIC COMPANY  
 2929 N.W. 29th Avenue  
 Portland, Oregon 97210

Accepted: \_\_\_\_\_ 19 \_\_\_\_\_

bcc: J. Hamer - A&ES/Portland  
 L. Kiser - A&ES/Portland  
 FSR  
 B: J. Pfrimmer - A&ES/Walnut Creek  
 S. Porter - PCB Facility/Portland  
 T. McGibbon - A&ES/Portland  
 -----

KCK/PFLB  
 KCK/CF-FSR

Two copies of this Contract are provided. Please execute and return one copy to General Electric Company at the above address.

GENERAL ELECTRIC

PAGE NO. 2  
QUOTATION NO. 437A00012  
CONTRACT NO. \_\_\_\_\_  
DATE June 2, 1987

ITEM(S) TO BE RETROFIT AND DISPOSED (cont.)

- Item 4: One (1) 300 kVA transformer containing 117 gallons of Askarel (Sherwood Building)
- Item 5: One (1) 500 kVA trnsformer containing 140 gallons of Askarel (Roof)

WORK DESCRIPTION: ISD shall:

1. Dispose of the above listed PCB item(s) per Section 40CFR761 of the EPA Federal Regulations. All technical direction, material and labor to perform the work scope herein is inclusive in this proposal. The General Electric Company PCB facility at N.W. Industrial in Portland, Oregon will be utilized for the applicable portions of this proposal.

2. New equipment will be installed per the following specifications:

Five (5) Silicone-filled transformers with the following description:

Rating and voltage: Same as units being replaced

Impedance: 5.75%

HV BIL: 95 KV LV BIL: 30 KV

Taps and accessories as described in GEA-9878 (enclosed)

Note: Replacement for Items 3 and 4 will also have a high voltage air switch to replace the existing oil switches.

Present shipment estimate: Thirteen (13) weeks. FOB Rome, Georgia

Print mailing estimate: Six (6) weeks

Actual shipment will depend on backlog existing at the time order is received at factory. If prints for approval are required, add six (6) weeks to the shipment estimate. All standard terms and conditions of sale in Handbook 5521, pages 1 and 2 apply, except price clause 1Q for order within sixty (60) days.

3. Provide job management, engineering services, labor, tools, materials and equipment to retrofit five (5) PCB filled transformers.
  - A. Job management to schedule and organize on-site work with Customer and General Electric.
  - B. Special engineering services to specify, requisition and expedite delivery of the new non-PCB transformers.



# TRANSFORMER CONSULTANTS

3890 Mowry Ave. Ste A, Fremont CA 94538

OHIO EPA ID#OH-D044946127

December 31, 1987

P.O. Box 4724  
Akron, Ohio 44310  
Phone: (216) 633-2666  
Toll Free: (800) 321-9580

DEACONESS HOSPITAL  
West 800 Fifth Ave.  
Spokane WA 99210

Cust#11092000  
(509) 624-0171

Attn: Chet Echelbarger

## TRANSFORMER DISPOSAL & RETROFIT QUOTATION

#2270

We are pleased to submit this quotation for your consideration and approval. For information, or to place your order, please contact Steve Everett.

<u>TC#</u>	<u>MFG.</u>	<u>Serial #</u>	<u>Gall.</u>	<u>PPM/PCB</u>	<u>Approx. Size</u>
1	ITE	20982-A01	315	Askarel	8'x8'x7'
2	ITE	20982-D01	218	Askarel	4'x7'x7'
3	ITE	20982-B01	140	Askarel	5'x6'x7'
4	ITE	20136 A01	117	Askarel	4'x6'x7'
5	GE	G854825	100	Askarel	4'x10'x7'

S.D. Myers, Inc. will supply all labor, tools, and material to disconnect, dispose, and reconnect.

S.D. Myers, Inc. will supply rigging for removal and replacement of transformers.

All transformers will be replaced with new, silicone-filled units with ratings and accessories matched to the transformers they replace.

If work can be scheduled for five consecutive days, the total price for work described above will be . . . . . \$180,900.00

If work must be scheduled for five consecutive weekends, the total price for work described above will be . . . . . \$206,595.00

### TERMS & CONDITIONS

Applicable taxes are in addition to quoted price.

This proposal is valid for 60 days.

\*Additional Terms and Conditions Attached\*

# GENERAL ELECTRIC

QUOTATION NO. 437A00012

CONTRACT NO. \_\_\_\_\_

DATE June 2, 1987

## APPARATUS AND ENGINEERING SERVICES

NOTICE: This quotation is void unless accepted within 30 days from date hereof and is subject to change upon notice prior to acceptance.

TO Mr. Richard N. Mabboit  
Address DEACONESS HOSPITAL  
Post Office Box 248  
Spokane, WA 99210-0248

### I. Work Description, Completion, Price — General Electric Company (Company) agrees as follows:

The Industry Services Department (ISD) of the General Electric Company is pleased to offer the following proposal for PCB transformer removal, disposal, and installation of new transformers (retrofit).

#### ITEM(S) TO BE RETROFIT AND DISPOSED:

- Item 1: One (1) 2000 kVA transformer containing 315 gallons of Askarel (Chiller Building)
- Item 2: One (1) 500 kVA transformer containing 218 gallons of Askarel (North Wing)
- Item 3: One (1) 225 kVA transformer containing 100 gallons of Askarel (Sherwood Building)


### II. Definition — Complete Installation/Maintenance Service

Complete Installation/Maintenance Service can consist of a combination of planning, management, labor, tools, and miscellaneous materials to move, install, assemble, connect, interconnect, and start-up and/or maintain the equipment involved.

This Contract is subject to STANDARD CONDITIONS FOR SERVICES on reverse side

GENERAL ELECTRIC COMPANY

Accepted: \_\_\_\_\_ 19 \_\_\_\_\_

By   
Kenneth C. Kadera  
Sales Engineer  
Title Industry Services Department  
GENERAL ELECTRIC COMPANY  
Address 2929 N.W. 29th Avenue  
Portland, Oregon 97210

(Purchaser)

By \_\_\_\_\_  
(Title)

Two copies of this Contract are provided. Please execute and return one copy to General Electric Company at the above address.

ELECTRIC

PAGE NO. 2  
 QUOTATION NO. 437A00012  
 CONTRACT NO. \_\_\_\_\_  
 DATE June 2, 1987

ITEM(S) TO BE RETROFIT AND DISPOSED (cont.)

Item 4: One (1) 300 kVA transformer containing 117 gallons of Askarel (Sherwood Building)

Item 5: One (1) 500 kVA transformer containing 140 gallons of Askarel (Roof)

WORK DESCRIPTION: ISD shall:

1. Dispose of the above listed PCB item(s) per Section 40CFR761 of the EPA Federal Regulations. All technical direction, material and labor to perform the work scope herein is inclusive in this proposal. The General Electric Company PCB facility at N.W. Industrial in Portland, Oregon will be utilized for the applicable portions of this proposal.

2. New equipment will be installed per the following specifications:

Five (5) Silicone-filled transformers with the following description:

Rating and voltage: Same as units being replaced

Impedance: 5.75%

HV BIL: 95 KV LV BIL: 30 KV

Taps and accessories as described in GEA-9878 (enclosed)

Note: Replacement for Items 3 and 4 will also have a high voltage air switch to replace the existing oil switches.

Present shipment estimate: Thirteen (13) weeks. FOB Rome, Georgia

Print mailing estimate: Six (6) weeks

Actual shipment will depend on backlog existing at the time order is received at factory. If prints for approval are required, add six (6) weeks to the shipment estimate. All standard terms and conditions of sale in Handbook 5521, pages 1 and 2 apply, except price clause 1Q for order within sixty (60) days.

3. Provide job management, engineering services, labor, tools, materials and equipment to retrofit five (5) PCB filled transformers.
  - A. Job management to schedule and organize on-site work with Customer and General Electric.
  - B. Special engineering services to specify, requisition and expedite delivery of the new non-PCB transformers.



# DEACONESS

MEDICAL CENTER · SPOKANE

March 6, 1986

Richard Sweetland  
Assistant Fire Chief .  
Spokane Fire Department  
W. 44 Riverside  
Spokane, WA 99201

In response to a recent E.P.A. regulation, this letter is to inform you and serve as a registration of P.C.B. oil filled transformers in Deaconess Medical Center.

The locations are as follows:

- (1) North Wing basement.
- (1) Chiller building, upper deck.
- (2) Sherwood building; courtyard area.
- (1) South wing roof.

We would be pleased to have your representative inspect the areas aforementioned. If you have any further questions, please call me.

*Richard N. Mabbott*

Richard N. Mabbott  
Director of Physical Plant

RNM/baw

CUST. DEACONESS HOSPITAL  
SUB. NAME CHILLER BLDG.

CITY SPOKANE WA  
UNIT #

OTHER

ID # 11092000

LOCATION

INDOOR / GROUND

DATE PRINTED  
FLOOR 02

1/2

**NAMEPLATE DATA**

MFG. ITE	EQUIP. TYPE	TRANSFORMER
DATE MFG.	TRANS CLASS	DA-FA
S/N 20982-A01	IMPEDENCE	3/60
KVA 2,000	PHASE/CYCLE	ASKAREL
PRI 13,200	LIQUID TYPE	315
SEC 480	GAL LIQUID	

**ADDITIONAL EQUIPMENT**

RADIATORS	YES	CONSERVATOR	NO
FANS	NO	TAP CHANGER	NO
H2O COOLED	NO	BUSHING LOC	SIDE
OIL PUMPS	NO	RECLAIMER	
TOP FPV		POWER V/A	
BOTTOM FPV	1.00 INCH	OTHER ACCESS	

**VISUAL INSPECTION**

PAINT CONDITION GOOD LEAKS SEEPAGE LT AT 85V

**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	TOTAL CONTENT
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**FIELD SERVICE**

COLOR LABEL

CLASS

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	AC	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
12/00/79		NORMAL	40 C	1.0~	.015	AC	N/A	27 QU	PALE YELD AC	1.520 AC	CLEAR AC	NONE AC
8/22/83		NORMAL	49 C	0.2	.010	AC	N/A	41 AC	PALE YELD AC	1.500 AC	CLEAR AC	NONE AC
1/05/85		NORMAL	29 C	1.0~	.015	AC	N/A		PALE YELD AC	1.500 AC	CLEAR AC	NONE AC
1/10/86		NORMAL	34 C	0.0	.015	AC	N/A		PALE YELD AC	1.500 AC	CLEAR AC	NONE AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
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THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.



**TRANSFORMER CONSULTANTS**  
A DIVISION OF S.D. MYERS INC.

3890 HAWRY AVENUE, SUITE A, FREMONT, CA 94538

DC

ID # 1109

CUST DEACONESS HOSPITAL  
MFG ITE  
S/N 20982-A01

KVA 2,000

PRIMARY 13,200  
SECONDARY 480

SUB NAME CHILLER BLDG.

UNIT #

**KARL FISCHER TESTING/MOISTURE CONTENT/EXPRESSED IN PPM**

DATE	SERVICE	TEMPERATURE	MOISTURE	PER CENT	PER CENT
				MOISTURE BY WEIGHT	MOISTURE SATURATION
8/22/85		87.37	IN	.00	AC
1/05/85		30.10	AC	.00	AC
8/11/85		10.10	AC	.00	AC

COMMENTS

**ICP/METALS-IN-OIL/EXPRESSED IN PPM**

DATE	SERVICE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER	TIN	MOLYBDENUM	CADMIUM
1/05/85		.360	.070	1.660	.080	.130	.060	ND	.140	ND

NOTE-THE ANALYSIS OF THIS SAMPLE DOES NOT SHOW ANY ABNORMALLY HIGH AMOUNTS OF DISSOLVED METALS. THIS DATA SERVES AS A BASELINE WHICH FURTHER EVALUATIONS WILL REST. COMMENT - RETEST 1 YEAR.

**LIQUID POWER FACTOR**

DATE	SERVICE	25 C	100 C
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THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

**TRANSFORMER CONSULTANTS**  
A DIVISION OF S.D. MYERS INC.

3890 MOWRY AVENUE, SUITE A, FREMONT, CA 94538



CUST. DEACONESS HOSPITAL CITY SPOKANE WA  
SUB. NAME NORTH WING VAULT UNIT # OTHER

ID # 11092000 DATE PRINTED 1/2/86  
LOCATION INDOOR / GROUND FLOOR 02

**NAMEPLATE DATA**  
MFG. ITE EQUIP. TYPE TRANSFORMER  
DATE MFG. TRANS CLASS OA  
S/N 20982-001 IMPEDENCE 5.44%  
KVA 500 PHASE/CYCLE 3/60  
PRI 13,200 LIQUID TYPE ASKAREL  
SEC 208 GAL LIQUID 218

**ADDITIONAL EQUIPMENT**  
RADIATORS YES CONSERVATOR NO  
FANS NO TAP CHANGER NO  
H2O COOLED NO BUSHING LOC SIDE  
OIL PUMPS NO RECLAIMER  
TOP FPV 1.00 INCH POWER V/A  
BOTTOM FPV 1.00 INCH OTHER ACCESS

**VISUAL INSPECTION**  
PAINT CONDITION GOOD LEAKS NONE

**PCB CONTENT / EXPRESSED IN PPM**  
DATE OF SERVICE 1242 AROCLOR 1254 AROCLOR 1260 AROCLOR TOTAL CONTENT

**FIELD SERVICE**

COLOR LABEL CLASS

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
12/00/79		NORMAL	60 C	1.0-	.050 AC	N/A	33 AC	PALE YELO AC	1.520 AC	CLEAR AC	NONE AC
8/22/83		HIGH	76 C		.010 AC	N/A	43 AC	PALE YELO AC	1.550 AC	CLEAR AC	NONE AC
1/05/85		HIGH	61 C	0.0	.035 AC	N/A		PALE YELO AC	1.500 AC	CLEAR AC	NONE AC
1/10/86		HIGH	74 C	0.1	.025 AC	N/A		PALE YELO AC	1.500 AC	CLEAR AC	NONE AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
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THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

KEY TO ABBREVIATIONS: AC — ACCEPTABLE QU — QUESTIONABLE UN — UNACCEPTABLE

**TRANSFORMER CONSULTANTS**  
A DIVISION OF S.D. MYERS INC.

3890 HENRY AVENUE, SUITE A, FREMONT, CA 94538

50 0

CUST DEACONESS HOSPITAL  
MFG ITE  
S/N 20982-001

KVA

500

PRIMARY

13,200

SUB NAME NORTH WING VAULT

UNIT #

SECONDARY

208

ID # 11092

**KARL FISCHER TESTING MOISTURE CONTENT EXPRESSED IN PPM**

DATE	SERVICE	TEMPERATURE	MOISTURE	PERCENT	MOISTURE/DRY WEIGHT	MOISTURE	SATURATION
8/22/83			95.85	UN	ND	ND	
1/9/85			10.25	ND	ND	ND	
1/10/86			25.95	ND	ND	ND	

COMMENTS

**ICP/METALS-IN-OIL/EXPRESSED IN PPM**

DATE	SERVICE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER	TIN	MOLYBDENUM	CADMIUM
1/05/85		ND	.210	3.690	.140	.270	ND	ND	.400	.030

NOTE-THE DISSOLVED METAL ANALYSIS OF THIS SAMPLE - ASKAREL -SHOWS AN ELEVATED AMOUNT OF ZN . IN ORDER TO DETERMINE IF SIGNIFICANT METALLIC DETERIORATION IS ACTIVE, WE RECOMMEND RETESTING THIS UNIT IN 6 MONTHS TO NOTE ANY INCREASES.

**LIQUID POWER FACTOR**

DATE SERVICE 25 C 100 C

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

KEY TO ABBREVIATIONS: AC - ACCEPTABLE QU - QUESTIONABLE UN - UNACCEPTABLE

**TRANSFORMER CONSULTANTS**  
A DIVISION OF S.D. MYERS INC.

3890 MOWRY AVENUE, SUITE A, FREMONT, CA 94538

50 00

CUST. DEACONESS HOSPITAL  
SUB. NAME SOUTH WING ROOF

CITY SPOKANE WA  
UNIT # ROOF 6TH FLOOR OTHER

ID # 11092000

DATE PRINTED 1/21/

LOCATION INDOOR /GROUND

**NAMEPLATE DATA**

MFG. ITE	EQUIP. TYPE	TRANSFORMER
DATE MFG.	TRANS CLASS	DA
S/N 20982-801	IMPEDENCE	5.14%
KVA 500	PHASE/CYCLE	3/60
PRI 13,200	LIQUID TYPE	ASKAREL
SEC 208	GAL LIQUID	140

**ADDITIONAL EQUIPMENT**

RADIATORS	YES	CONSERVATOR	NO
FANS	NO	TAP CHANGER	NO
H2O COOLED	NO	BUSHING LOC	SIDE ENCLOSED
OIL PUMPS	NO	RECLAIMER	
TOP FPV	1.00 INCH	POWER V/A	
BOTTOM FPV	1.00 INCH	OTHER ACCESS	

**VISUAL INSPECTION**

PAINT CONDITION GOOD LEAKS NONE

**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	TOTAL CONTENT
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**FIELD SERVICE**

COLOR LABEL

CLASS

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	AC	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT	AC
12/00/79		LOW	40 C	1.0-	.015	AC	N/A	95 AC	PALE YELD AC	1.520 AC	CLEAR AC	NONE	AC
8/22/83		NORMAL	62 C	0.0	.010	AC	N/A	97 AC	PALE YELD AC	1.500 AC	CLEAR AC	NONE	AC
1/05/85		NORMAL	38 C	0.5-	.030	AC	N/A		PALE YELD AC	1.500 AC	CLEAR AC	NONE	AC
1/10/86		NORMAL	40 C		.050	AC	N/A		PALE YELD AC	1.500 AC	CLEAR AC	NONE	AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
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THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.



CUST DEACONESS HOSPITAL

MFG ITE

KVA

500

PRIMARY

13,200

SUB NAME SOUTH WING ROOF

UNIT # ROOF 6TH FLOOR

ID # 1109201

S/N 20982-801

SECONDARY

208

**KARL FISCHER TESTING/MOISTURE CONTENT EXPRESSED IN PPM**

DATE	SERVICE	TEMPERATURE	MOISTURE		DIFFERENTIAL		MOISTURE	SOLUBILIZATION
			PPM	UN	PPM	UN		
8/28/83			108.25	UN	71	AC		
1/15/85			31.25	AC	21	AC		
1/15/85			38.25	AC	21	AC		

COMMENTS

**ICP/METALS-IN-OIL/EXPRESSED IN PPM**

DATE	SERVICE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER	TIN	MOLYBDENUM	CADMIUM
1/05/85		ND	.090	2.060	.370	.120	ND	ND	.240	ND

NOTE-THE DISSOLVED METAL ANALYSIS OF THIS SAMPLE - ASKAREL - SHOWS AN ELEVATED AMOUNT OF ZN . IN ORDER TO DETERMINE IF SIGNIFICANT METALLIC DETERIORATION IS ACTIVE, WE RECOMMEND RETESTING THIS UNIT IN 6 MONTHS TO NOTE ANY INCREASES.

**LIQUID POWER FACTOR**

DATE 1/05/85 SERVICE

100

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

CUST. DEACONESS HOSPITAL  
SUB. NAME SHERWOOD VAULT

CITY SPOKANE WA  
UNIT # GREY UNIT

OTHER

ID # 11092000

DATE PRINTED 1/21/86

LOCATION INDOOR /GROUND

**NAMEPLATE DATA**

MFG. ITE	EQUIP. TYPE	TRANSFORMER
DATE MFG.	TRANS CLASS	DA
S/N 20136 A01	IMPEDENCE	5.00%
KVA 300	PHASE/CYCLE	3/60
PRI 13,800	LIQUID TYPE	ASKAREL
SEC 208	GAL LIQUID	117

**ADDITIONAL EQUIPMENT**

RADIATORS	YES	CONSERVATOR	NO
FANS	NO	TAP CHANGER	NO
H2O COOLED	NO	BUSHING LOC	SIDE
OIL PUMPS	NO	RECLAIMER	
TOP FPV	1.00 INCH	POWER V/A	
BOTTOM FPV	1.00 INCH	OTHER ACCESS	

**VISUAL INSPECTION**

PAINT CONDITION	GOOD	LEAKS	NONE
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**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	TOTAL CONTENT
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**FIELD SERVICE**

COLOR LABEL CLASS

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
12/00/79		LOW	40 C	1.0-	.025 AC	N/A	36 AC	PALE YELO AC	1.540 AC	CLEAR AC	NONE AC
8/22/83		NORMAL	47 C	1.0	.015 AC	N/A	28 QU	PALE YELO AC	1.540 AC	CLEAR AC	NONE AC
1/05/85		NORMAL	42 C	0.2	.020 AC	N/A		PALE YELO AC	1.540 AC	CLEAR AC	NONE AC
1/10/86		NORMAL	13 C	0.1	.020 AC	N/A		PALE YELO AC	1.540 AC	CLEAR AC	NONE AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
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THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

CUST DEACONESS HOSPITAL

MFG ITE

S/N 20136 A01

KVA

300

PRIMARY

13,800

SECONDARY

208

SUB NAME SHERWOOD VAULT

UNIT # GREY UNIT

ID # 11092000

**KARL FISCHER TESTING MOISTURE CONTENT EXPRESSED IN PPM**

DATE	SERVICE	TEMPERATURE	MOISTURE	PER CENT	REMARKS
07/23/88		107.00	IN	00	AD
07/25/88		88.74	80	00	AD
07/10/88		18.40	80	10	AD

COMMENTS

**ICP/METALS-IN-OIL/EXPRESSED IN PPM**

DATE	SERVICE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER	TIN	MOLYBDENUM	CADMIUM
11/05/85		NO	.090	2.370	.240	.100	.010	ND	.080	ND

NOTE-THE DISSOLVED METAL ANALYSIS OF THIS SAMPLE - ASKAREL -SHOWS AN ELEVATED AMOUNT OF ZN . IN ORDER TO DETERMINE IF SIGNIFICANT METALLIC DETERIORATION IS ACTIVE, WE RECOMMEND RETESTING THIS UNIT IN 6 MONTHS TO NOTE ANY INCREASES.

**LIQUID POWER FACTOR**

DATE SERVICE 25 100 C

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

CUST. DEACONESS HOSPITAL  
SUB. NAME SHERWOOD VAULT

CITY SPOKANE WA  
UNIT # BROWN UNIT

OTHER

ID # 11092000

DATE PRINTED 1/21/86

LOCATION INDOOR / GROUND

**NAMEPLATE DATA**

MFG. G.E.	EQUIP. TYPE	TRANSFORMER
DATE MFG.	TRANS CLASS	0A
S/N 6854825	IMPEDENCE	5.21%
KVA 225	PHASE/CYCLE	3/60
PRN 13,200	LIQUID TYPE	ASKAREL
SEC 480	GAL LIQUID	100

**ADDITIONAL EQUIPMENT**

RADIATORS	YES	CONSERVATOR	NO
FANS	NO	TAP CHANGER	NO
H2O COOLED	NO	BUSHING LOC	SIDE
OIL PUMPS	NO	RECLAIMER	
TOP FPV	1.00 INCH	POWER V/A	
BOTTOM FPV	1.00 INCH	OTHER ACCESS	

**VISUAL INSPECTION**

PAINT CONDITION 6000 LEAKS NONE

**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	TOTAL CONTENT
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**FIELD SERVICE**

COLOR LABEL

CLASS

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	AC	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
12/00/79		NORMAL			.020	AC	N/A	36 AC	WTR WHITE AC	1.520 AC	CLEAR AC	NONE AC
8/22/83		NORMAL	34 C	0.2	.010	AC	N/A	20 UN	WTR WHITE AC	1.500 AC	CLEAR AC	NONE AC
1/05/85		NORMAL	33 C	0.2-	.010	AC	N/A		WTR WHITE AC	1.500 AC	CLEAR AC	NONE AC
1/10/86		NORMAL	39 C	0.2	.010	AC	N/A		WTR WHITE AC	1.500 AC	CLEAR AC	NONE AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
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THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.



CUST DEACONESS HOSPITAL

MFG C.E.

KVA

225

PRIMARY

13,200

SUB NAME SHERWOOD VAULT

UNIT # BROWN UNIT

ID # 1109200

S/N G854825

SECONDARY

480

**TABLE FISCHER TESTING MOISTURE CONTENT EXPRESSED IN PPM**

DATE	SERVICE	TEMPERATURE	MOISTURE		PER CENT		PER CENT	
			TEMP	UNIT	MOISTURE	DRY WEIGHT	MOISTURE	SATURATION
8/28/88			70.15	IN	00	AC		
1/15/89			97.75	AC	00	AC		
1/11/89			10.75	AC	00	AC		

**COMMENTS**

**ICP/METALS-IN-OIL/EXPRESSED IN PPM**

DATE	SERVICE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER	TIN	MOLYBDENUM	CADMIUM
1/05/85		ND	.010	ND	ND	.170	.050	ND	.110	ND

NOTE-THE ANALYSIS OF THIS SAMPLE DOES NOT SHOW ANY ABNORMALLY HIGH AMOUNTS OF DISSOLVED METALS. THIS DATA SERVES AS A BASELINE UPON WHICH FURTHER EVALUATIONS WILL REST. COMMENT - RETEST 1 YEAR.

**LIQUID POWER FACTOR**

DATE 8/28/88 SERVICE 25 C 100 C

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

1985 PCB  
Annual Report  
Deaconess Medical Center  
W. 800 5th Ave. Spokane, WA

Summary: Five electrical PCB transformers containing Askarel or Pyranol are present on site at Deaconess Medical Center. All have been periodically inspected by Deaconess Maintenance Personnel and are functioning well with no fluid leaks. See letter dated 07/12/85.

All five transformers are located within an impervious concrete containment basin capable of holding at least 100% of the total volume of dielectric fluid of each transformer. The last fluid test was performed on 01/05/85. See attached related documents.

Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building.

Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault.

Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof.

Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

Ken Bayne  
Safety Manager

Gray Miller  
July 12, 1985

Richard S. Oatland  
Asst. Fire Chief  
Spokane Fire Dept

TO: CHET ECHELBARGER

W. 4A Pursuit

FROM: RICHARD N. MABBOTT

99201 -

SUBJECT: Tour of Electrical Vaults

Chet, as a memo of understanding, this memo is to be a record of our intent and observations during the tour of the electrical vaults containing oil filled transformers with PCB.

1. North wing, basement: (1) oil filled transformer, abandoned floor conduit will be filled and sealed with concrete. Combustable material will be removed from vault.
2. Chiller bldg.: (1) oil filled transformer, no work required.
3. Sherwood bldg.: (2) oil filled transformers, fill existing floor drain that connects to catch basin and seal with concrete. Combustable material will be removed from vault.
4. South wing roof: (1) oil filled transformer, fill existing floor drain and seal with concrete.

I would recommend that all storage be removed from electrical vaults with oil filled transformers. Any material that could get PCB oil on it would complicate a clean up operation to the extent that material would probably be thrown away instead of being cleaned up.

Also, all vaults need a good, general cleanup.

Richard N. Mabbott

Richard N. Mabbott

RNM/baw

CUST. DEACONESS HOSPITAL  
SUB. NAME CHILLER BLDG.

CITY SPOKANE WA  
UNIT #

OTHER

ID # 11092000

DATE PRINTED 3/35/11

LOCATION INDOOR / GROUND FLOOR 02

**NAMEPLATE DATA**

MFG. ITE	EQUIP. TYPE	TRANSFORMER
DATE MFG.	TRANS CLASS	
S/N 20982-A01	IMPEDENCE	
KVA 2,000	PHASE/CYCLE	3/60
PRI 1S,200	LIQUID TYPE	ASKAREL
SEC 480	GAL LIQUID	315

**ADDITIONAL EQUIPMENT**

RADIATORS	YES	CONSERVATOR	NO
FANS	NO	TAP CHANGER	NO
H2O COOLED	NO	BUSHING LOC	SIDE
OIL PUMPS	NO	RECLAIMER	
TOP FPV		POWER V/A	240/40
BOTTOM FPV	1.00 INCH	OTHER ACCESS	

**VISUAL INSPECTION**

PAINT CONDITION GOOD LEAKS VERY LT. SEEPAGE - BSV

**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	TOTAL CONTENT
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**FIELD SERVICE**

COLOR LABEL

CLASS

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT	
9/22/83		NORMAL	49 C	0.2	.010	AC	N/A	41 AC	PALE YELD AC	1.500 AC	CLEAR AC	NONE AC
1/25/05		NORMAL	29 C	1.0-	.015	AC	N/A		PALE YELD AC	1.500 AC	CLEAR AC	NONE AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
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THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.



CUST DEACONESS HOSPITAL

ID # 1109200

MFG ITE

KVA

2,000

PRIMARY

13,200

SUB NAME CHILLER BLDG.

UNIT #

S/N

20982-A01

SECONDARY

480

**KARL FISCHER TESTING MOISTURE CONTENT (EXPRESSED IN PPM)**

DATE	SERVICE	TEMPERATURE	MOISTURE PPM	PER CENT MOISTURE DRY WEIGHT	PER CENT MOISTURE SATURATION
11/23/83			87.87 UN	100	100
11/06/85			20.10 AC	20	20

COMMENTS

**ICP/METALS-IN-OIL/EXPRESSED IN PPM**

DATE	SERVICE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER	TIN	VANADIUM	MOLYBDENUM	CADMIUM
11/05/85		.360	.070	1.660	.080	.130	.060		ND	.140	ND

NOTE-THE ANALYSIS OF THIS SAMPLE DOES NOT SHOW ANY ABNORMALLY HIGH AMOUNTS OF DISSOLVED METALS. THIS DATA SERVES AS A BASELINE UPON WHICH FURTHER EVALUATIONS WILL REST. COMMENT - RETEST 1 YEAR.

**LIQUID POWER FACTOR**

DATE	SERVICE	25 C	100 C
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THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

CUST. DEACONESS HOSPITAL CITY SPOKANE WA  
SUB. NAME NORTH WING VAULT UNIT # OTHER

ID # 11092000 DATE PRINTED 3/05/95  
LOCATION INDOOR /GROUND FLOOR 02

**NAMEPLATE DATA**

MFG. ITE	EQUIP. TYPE	TRANSFORMER
DATE MFG.	TRANS CLASS	
S/N 20982-D01	IMPEDENCE	5.44%
KVA 500	PHASE/CYCLE	3/60
PRI 13,200	LIQUID TYPE	ASXAREL
SEC 208	GAL LIQUID	218

**ADDITIONAL EQUIPMENT**

RADIATORS	YES	CONSERVATOR	NO
FANS	NO	TAP CHANGER	NO
H2O COOLED	NO	BUSHING LOC	SIDE
OIL PUMPS	NO	RECLAIMER	
TOP FPV	1.00 INCH	POWER V/A	240/40
BOTTOM FPV	1.00 INCH	OTHER ACCESS	

**VISUAL INSPECTION**

PAINT CONDITION GOOD LEAKS NONE

**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	TOTAL CONTENT
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**FIELD SERVICE**

COLOR LABEL

CLASS

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
8/22/83		HIGH	76 C		.010 AC	N/A	43 AC	PALE YEL0 AC	1.550 AC	CLEAR AC	NONE AC
1/05/85		HIGH	61 C	0.0	.035 AC	N/A		PALE YEL0 AC	1.560 AC	CLEAR AC	NONE AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
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THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.



CUST DEACONESS HOSPITAL

ID # 11092001

MFG ITE

KVA

500

PRIMARY

13,200

SUB NAME NORTH WING VAULT

UNIT #

S/N 20982-001

SECONDARY

208

**KARL FISCHER TESTING/MOISTURE CONTENT EXPRESSED IN PPM**

DATE	SERVICE	TEMPERATURE	MOISTURE PPM	PER CENT	MOISTURE PER CENT	MOISTURE PER CENT
10/21/89		90.00	40	0.04		
11/13/81		140.00	40	0.04		

**ICP/METALS-IN-OIL/EXPRESSED IN PPM**

DATE	SERVICE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER	TIN	VANADIUM	MOLYBDENUM	CADMIUM
1/05/85		ND	.210	3.690	.140	.270	ND	ND	ND	.400	.030

NOTE-THE DISSOLVED METAL ANALYSIS OF THIS SAMPLE - ASKAREL -SHOWS AN ELEVATED AMOUNT OF ZN . IN ORDER TO DETERMINE IF SIGNIFICANT METALLIC DETERIORATION IS ACTIVE, WE RECOMMEND RETESTING THIS UNIT IN 6 MONTHS TO NOTE ANY INCREASES.

**LIQUID POWER FACTOR**

DATE SERVICE 25 C 100 C

THE POWER FACTOR OF THE OIL AT 25-AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULT

CUST. DEACONESS HOSPITAL  
SUB. NAME SOUTH WING ROOF

CITY SPOKANE WA  
UNIT # ROOF 6TH FLOOR OTHER

ID # 11092000

DATE PRINTED 3/05/

LOCATION INDOOR /GROUND

**NAMEPLATE DATA**

MFG. ITE	EQUIP. TYPE	TRANSFORMER
DATE MFG.	TRANS CLASS	
S/N 20982-801	IMPEDENCE	5.14%
KVA 500	PHASE/CYCLE	3/60
PRI 15,200	LIQUID TYPE	ASKAREL
SEC 208	GAL LIQUID	140

**ADDITIONAL EQUIPMENT**

RADIATORS	YES	CONSERVATOR	NO
FANS	NO	TAP CHANGER	NO
H2O COOLED	NO	BUSHING LOC	SIDE ENCLOSED
OIL PUMPS	NO	RECLAIMER	
TOP FPV	1.00 INCH	POWER V/A	240/40
BOTTOM FPV	1.00 INCH	OTHER ACCESS	

**VISUAL INSPECTION**

PAINT CONDITION GOOD LEAKS NONE

**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	TOTAL CONTENT
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**FIELD SERVICE**

COLOR LABEL

CLASS

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
8/22/83		NORMAL	62 C	0.0	.010	AC N/A	37 AC	PALE YELD AC	1.500 AC	CLEAR AC	NONE AC
1/05/85		NORMAL	38 C	0.5-	.030	AC N/A		PALE YELD AC	1.500 AC	CLEAR AC	NONE AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
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THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.



CUST DEACONESS HOSPITAL

MFG ITE

KVA

500

PRIMARY

13,200

SUB NAME SOUTH WING ROOF

UNIT # ROOF 6TH FLOOR

S/N 20982-B01

SECONDARY

208

ID # 1109200

KABL FISCHER TESTING/MOISTURE CONTENT/EXPRESSED IN PPM

DATE	SERVICE	TEMPERATURE	MOISTURE PPM	PER CENT	MOISTURE SATURATION
10/05/85		100.00	1.35	1.35	1.35
10/05/85		100.00	1.35	1.35	1.35

COMMENTS

ICP/METALS-IN-OIL/EXPRESSED IN PPM

DATE	SERVICE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER	TIN	VANADIUM	MOLYBDENUM	CADMIUM
10/05/85		ND	.090	2.060	.370	.120	ND	ND	ND	.240	ND

NOTE-THE DISSOLVED METAL ANALYSIS OF THIS SAMPLE - ASKAREL -SHOWS AN ELEVATED AMOUNT OF ZN . IN ORDER TO DETERMINE IF SIGNIFICANT METALLIC DETERIORATION IS ACTIVE, WE RECOMMEND RETESTING THIS UNIT IN 6 MONTHS TO NOTE ANY INCREASES.

LIQUID POWER FACTOR

DATE	SERVICE	25 C	100 C
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\* THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

\* TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

CUST. DEACONESS HOSPITAL CITY SPOKANE WA  
SUB. NAME SHERWOOD VAULT UNIT # GREY UNIT OTHER

ID # 11092000 DATE PRINTED 3/05/85  
LOCATION INDOOR / GROUND

**NAMEPLATE DATA**

MFG. ITE	EQUIP. TYPE	TRANSFORMER
DATE MFG.	TRANS CLASS	
S/N 20136	IMPEDENCE	5.00%
KVA 300	PHASE/CYCLE	3/60
PRI 13,800	LIQUID TYPE	ASKAREL
SEC 208	GAL LIQUID	117

**ADDITIONAL EQUIPMENT**

RADIATORS	YES	CONSERVATOR	NO
FANS	NO	TAP CHANGER	NO
H2O COOLED	NO	BUSHING LOC	SIDE
OIL PUMPS	NO	RECLAIMER	
TOP FPV	1.00 INCH	POWER V/A	240/40
BOTTOM FPV	1.00 INCH	OTHER ACCESS	

**VISUAL INSPECTION**

PAINT CONDITION GOOD LEAKS NONE

**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	TOTAL CONTENT
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**FIELD SERVICE**

COLOR LABEL CLASS

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
8/22/83		NORMAL	47 C	1.0	.015 AC	N/A	23 QU	PALE YELD AC	1.540 AC	CLEAR AC	NONE AC
1/05/85		NORMAL	42 C	0.2	.020 AC	N/A		PALE YELD AC	1.540 AC	CLEAR AC	NONE AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
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THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

CUST DEACONESS HOSPITAL

MFG ITE

KVA

300

PRIMARY

13,800

SUB NAME SHERWOOD VAULT

UNIT # GREY UNIT

S/N 20136

SECONDARY

208

ID # 1109200

KARL FISCHER TESTING/MOISTURE CONTENT/EXPRESSED IN PPM

DATE	SERVICE	TEMPERATURE	MOISTURE PPM	PER CENT	PER CENT
				MOISTURE DRY WEIGHT	MOISTURE SATURATION
1/22/85		105	10	10	10
1/25/85		105	10	10	10

COMMENTS

ICP/METALS-IN-OIL/EXPRESSED IN PPM

DATE	SERVICE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER	TIN	VANADIUM	MOLYBDENUM	CADMIUM
1/05/85		ND	.090	2.370	.240	.100	.010		ND	.080	ND

NOTE-THE DISSOLVED METAL ANALYSIS OF THIS SAMPLE - ASKAREL -SHOWS AN ELEVATED AMOUNT OF ZN . IN ORDER TO DETERMINE IF SIGNIFICANT METALLIC DETERIORATION IS ACTIVE, WE RECOMMEND RETESTING THIS UNIT IN 6 MONTHS TO NOTE ANY INCREASES.

LIQUID POWER FACTOR

DATE 1/22/85 SERVICE 25 C 100 C

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

CUST. DEACONESS HOSPITAL  
SUB. NAME SHERWOOD VAULT

CITY SPOKANE WA  
UNIT # BROWN UNIT

OTHER

ID # 11092000

DATE PRINTED 3/05/85

LOCATION INDOOR / GROUND

**NAMEPLATE DATA**

MFG. G.E.	EQUIP. TYPE	TRANSFORMER
DATE MFG.	TRANS CLASS	
S/N G854025	IMPEDENCE	5.21%
KVA 225	PHASE/CYCLE	3/60
PRI 15,200	LIQUID TYPE	ASKAREL
SEC 480	GAL LIQUID	100

**ADDITIONAL EQUIPMENT**

RADIATORS	YES	CONSERVATOR	NO
FANS	NO	TAP CHANGER	NO
H2O COOLED	NO	BUSHING LOC	SIDE
OIL PUMPS	NO	RECLAIMER	
TOP FPV	1.00 INCH	POWER V/A	240/40
BOTTOM FPV	1.00 INCH	OTHER ACCESS	

**VISUAL INSPECTION**

PAINT CONDITION GOOD LEAKS NONE

**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	TOTAL CONTENT
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**FIELD SERVICE**

COLOR LABEL

CLASS

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
8/22/83		NORMAL	34 C	0.2	.010 AC	N/A	20 UN	WTR WHITE AC	1.500 AC	CLEAR AC	NONE AC
1/05/85		NORMAL	33 C	0.2-	.010 AC	N/A		WTR WHITE AC	1.500 AC	CLEAR AC	NONE AC

COMMENTS TRANSFORMER LIQUID TEST DATA ACCEPTABLE IN ALL CATEGORIES.

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
------	---------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------------	-----------

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.



CUST DEACONESS HOSPITAL

MFG G.E.

KVA

225

PRIMARY

13,200

SUB NAME SHERWOOD VAULT

UNIT # BROWN UNIT

ID # 11092000

S/N GC54825

SECONDARY

480

**KARL FISCHER TESTING/MOISTURE CONTENT/EXPRESSED IN PPM**

DATE	SERVICE	TEMPERATURE	MOISTURE PPM	PER CENT MOISTURE/DRY WEIGHT	PER CENT MOISTURE SATURATION
07/03/85			98.12	UN	
17/05/85			37.75	ND	

COMMENTS

**ICP/METALS-IN-OIL/EXPRESSED IN PPM**

DATE	SERVICE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER	TIN	VANADIUM	MOLYBDENUM	CADMIUM
17/05/85		ND	.010	ND	ND	.170	.050		ND	.110	ND

NOTE-THE ANALYSIS OF THIS SAMPLE DOES NOT SHOW ANY ABNORMALLY HIGH AMOUNTS OF DISSOLVED METALS. THIS DATA SERVES AS A BASELINE UPON WHICH FURTHER EVALUATIONS WILL REST. COMMENT - RETEST 1 YEAR.

**LIQUID POWER FACTOR**

DATE	SERVICE	25 C	100 C

\* THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL

\* TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

1984 PCB  
Annual Report  
Deaconess Medical Center  
W. 800 5th Ave. Spokane, WA

Summary: Five electrical PCB transformers containing Askarel or Pyranol are present on site at Deaconess Medical Center. All have been periodically inspected by Deaconess Maintenance Personnel and are functioning well with no fluid leaks.

All five transformers are located within an impervious concrete containment basin capable of holding at least 100% of the total volume of dielectric fluid of each transformer. The last fluid test was performed on 08/22/83. See attached related documents.

Transformer # 1

ITE, serial number 20982-A01, 2000 KVA, 315 gallons Askarel, located in the Chiller Building.

Transformer # 2

ITE, serial number 20982-D01, 500 KVA, 218 gallons Askarel, located in the North Wing Vault.

Transformer # 3

ITE, serial number 20982-B01, 140 gallons Askarel, located on the South Wing roof.

Transformer # 4

General Electric, serial number G854825, 225 KVA, 100 gallons Pyranol, located in the Sherwood Transformer Vault.

Transformer # 5

ITE, serial number 20136-A01, 300 KVA, 117 gallons Askarel, located in the Sherwood Transformer Vault.

Ken Bayne  
Safety Manager

\*\*\*TRANSFORMER CONSULTANT S.D. MYERS INC\*\*\*PO 4724\*\*AKRON OHIO 44310\*\*  
\*CUST- DEACONESS HOSPITAL LOC- SPOKANE WA ID#- 11092001  
\*SUB NAME- CHILLER BLDG 2 UNIT#- PMSA UNIT TC#- 000B

---\*NAMEPLATE DATA\*---

MFG ITE	RADIATORS	YES	LOCATION	INDOOR
SN# 20982-A01	FANS	NO		GROUND 2 FLOOR
KVA 2000	H2O COOLED	NO	TOP FPV	1.00 IN
PRI 13200	OIL PUMPS	NO	BOTTOM FPV	1.00 IN
SEC 480	TRANS CLASS		OTHER ACCS	
P/H 3/60	CONSERVATOR	NO	RECLAIMER	
GAL 315	TAP CHANGER	NO	POWER V/A	240/40
LIO ASKAREL	BUSHING LOC	SIDE	DATE MFG	
IMP 5.111	EQUIP TYPE	TRANSFORMER	MF	

---\*VISUAL INSPECTION\*---

LEVEL-NORMAL PRESSURE/VACUUM- .25 LEAKS-NONE  
TEMP- 49 C PAINT CONDITION-GOOD SRVC-

---\*PCB CONTENT/EXPRESSED IN PPM\*---

DATE-	AROCHLOR 1242	TOTAL PPM
CLASS-	AROCHLOR 1254	OTHER-
COLOR LABEL-	AROCHLOR 1260	

---\*TRANSFORMER LIQUID TEST DATA\*---

DATE	8/22/83	NOTES/COMMENTS ON LIO TESTING
N/N MG KOH/GS	0.010 AC	
IFT DYNES/CM	N/A	
DIEL D877 KV	41.0 AC	KF AND/OR DIELECTRIC TEST
DIEL D1816 KV		INDICATES THE PRESENCE OF
COLOR	P/Y AC	MOISTURE. RECOMMENDATION -
SP GRAVITY	1.500 AC	ELECTRICAL TESTING
VISUAL	CLR AC	
SEDIMENT	NONE AC	

CODE AC-ACCEPTABLE OU-QUESTIONABLE  
UN-UNACCEPTABLE OT-OTHER

---\*GAS-IN-OIL ANALYSIS/GAS CHROMATOGRAPHY/EXPRESSED IN PPM\*---

DATE	NOTES/COMMENTS ON GC TESTING
HYDROGEN	
OXYGEN	
NITROGEN	
METHANE	
CRBN MONOXIDE	
CRBN DIOXIDE	
ETHANE	
ETHYLENE	
ACETYLENE	
TOTAL COMBUST	
TOTAL GAS	
COMMENT	





\*\*\*TRANSFORMER CONSULTANTS\*\*\*DIV S.D. MYERS INC\*\*\*PO BOX 4724\*\*\*AKRON OHIO 44310\*\*\*  
\*CUST- DEACONESS HOSPITAL LOC- SPOKANE WA ID#- 11092000  
\*SUB- NAME- NORTH WING VAULT UNIT#- TC#- 0002

-----\*NAMEPLATE DATA\*-----

MFG ITEM#	RADIATORS	YES	LOCATION	INDOOR
SN 20982-D01	FANS	NO	GROUND	2 FLOOR
KVA 500	H2O COOLED	NO	TOP FPV	1.00 IN
PRI 13200	OIL PUMPS	NO	BOTTOM FPV	1.00 IN
SEC 208	TRANS CLASS		OTHER ACCS	
P/H 3/60	CONSERVATOR	NO	RECLAIMER	
GAL 218	TAP CHANGER	NO	POWER V/A	240/40
LIQ ASKAREL	BUSHING LOC	SIDE	DATE MFG	
IMP 5.44%	EQUIP TYPE	TRANSFORMER	MF	

-----\*VISUAL INSPECTION\*-----

LEVEL-HIGH	PRESSURE/VACUUM-	LEAKS-NONE
TEMP- 76 C	PAINT CONDITION-GOOD	SRVC-

-----\*PCB CONTENT/EXPRESSED IN PPM\*-----

DATE-	AROCHLOR 1242	TOTAL PPM
CLASS-	AROCHLOR 1254	OTHER-
COLOR LABEL-	AROCHLOR 1260	

-----\*TRANSFORMER LIQUID TEST DATA\*-----

DATE	8/22/83	NOTES/COMMENTS ON LIQ TESTING
N/N MG KOH/GS	0.010 AC	
IFT DYNES/CM	N/A	
DIEL D877 KV	43.0 AC	
DIEL D1816 KV		
COLOR	P/Y AC	
SP GRAVITY	1.550 AC	
VISUAL	CLR AC	
SEDIMENT	NONE AC	

KF AND/OR DIELECTRIC TEST INDICATES THE PRESENCE OF MOISTURE. RECOMMENDATION - ELECTRICAL TESTING

CODE	AC-ACCEPTABLE	QU-QUESTIONABLE
	UN-UNACCEPTABLE	OT-OTHER

-----\*GAS-IN-OIL ANALYSIS/GAS CHROMATOGRAPHY/EXPRESSED IN PPM\*-----

DATE	NOTES/COMMENTS ON GC TESTING
HYDROGEN	
OXYGEN	
NITROGEN	
METHANE	
CRBN MONOXIDE	
CRBN DIOXIDE	
ETHANE	
ETHYLENE	
ACETYLENE	
TOTAL COMBUST	
TOTAL GAS	
COMMENT	

---\*ICP TESTING/METALS-IN-OIL/EXPRESSED IN PPM\*---

DATE  
ALUM AL  
IRON FE  
ZINC ZN  
COPR CU  
LEAD PB  
SLVR AG  
TIN SN  
MOLY MO  
VANA V  
CADM CD

---\*KARL FISCHER TESTING\*---

DATE 8/22/83  
KF PPM 96.83  
% MOIST/DRY WT  
% SATURATION 60+  
CLASSIFICATION UN

---\*ON-LINE TRANSFORMER TESTING/OLTT.TM\*---

DATE/CODE DATE/CODE

GPC	TYNDLE
PF25 C	PART CNT
PF100 C	CRBN TYP
ANILINE	CRSU SUL
REF INDX	INOR C/S
INFR RED	SLDG CNT
CLOUD PT	DBPC CNT
FLASH PT	API SGRV
FIRE PT	RESTVITY
POUR PT	VISCOSITY
OSC	

---\*TRANSFORMER NOTES/CLASSIFICATION\*---

\*\*\*TRANSFORMER CONSULTANTS\*\*\*DIV S.D. MYERS INC\*\*\*PO BOX 4724\*\*\*AKRON OHIO 44310\*\*\*  
\*CUST- DEACONESS HOSPITAL LOC- SPOKANE WA ID#- 11092000  
\*SUB NAME- SOUTH WING ROOF UNIT#- ROOF 6TH FLOOR TC#- 0003

---\*NAMEPLATE DATA\*---

MFG-ITE	RADIATORS	YES	LOCATION	INDOOR
SN 20982-B01	FANS	NO		GROUND
KVA- 500	H2O COOLED	NO	TOP FPV	1.00 IN
PRI 13200	OIL PUMPS	NO	BOTTOM FPV	1.00 IN
SEC 208	TRANS CLASS		OTHER ACCS	
P/H 3/60	CONSERVATOR	NO	RECLAIMER	
GAL 140	TAP CHANGER	NO	POWER V/A	240/40
L10 ASKAREL	BUSHING LOC	SIDE ENCLOSED	DATE MFG	
IMP 5.14%	EQUIP TYPE	TRANSFORMER	MF	

---\*VISUAL INSPECTION\*---

LEVEL-NORMAL	PRESSURE/VACUUM-	0	LEAKS-NONE
TEMP- 62 C	PAINT CONDITION-GOOD	SRVC-	

---\*PCB CONTENT/EXPRESSED IN PPM\*---

DATE-	AROCHLOR 1242	TOTAL PPM
CLASS-	AROCHLOR 1254	OTHER-
COLOR LABEL-	AROCHLOR 1260	

---\*TRANSFORMER LIQUID TEST DATA\*---

DATE	8/22/83	NOTES/COMMENTS ON L10 TESTING
N/N MG KOH/GS	0.010 AC	
IFT DYNES/CM	N/A	
DIEL D877 KV	37.0 AC	KF AND/OR DIELECTRIC TEST
DIEL D1816 KV		INDICATES THE PRESENCE OF
COLOR	P/Y AC	MOISTURE. RECOMMENDATION -
SP GRAVITY	1.500 AC	ELECTRICAL TESTING
VISUAL	CLR AC	
SEDIMENT	NONE AC	

CODE	AC-ACCEPTABLE	OU-QUESTIONABLE
	UN-UNACCEPTABLE	OT-OTHER

---\*GAS-IN-OIL ANALYSIS/GAS CHROMATOGRAPHY/EXPRESSED IN PPM\*---

DATE	NOTES/COMMENTS ON GC TESTING
HYDROGEN	
OXYGEN	
NITROGEN	
METHANE	
CRBN MONOXIDE	
CRBN DIOXIDE	
ETHANE	
ETHYLENE	
ACETYLENE	
TOTAL COMBUST	
TOTAL GAS	
COMMENT	

---\*ICP TESTING/METALS-IN-CIL/EXPRESSED IN PPM\*---

DATE  
ALUM AL  
IRON FE  
ZINC ZN  
COBR CU  
LEAD PB  
SLVR AG  
TIN SN  
MOLY MO  
VANA V  
CADM CD

---\*KARL FISCHER TESTING\*---

DATE 8/22/83  
KF PPM 106.23  
% MOIST/DRY WT  
% SATURATION 60+  
CLASSIFICATION UN

---\*ON-LINE TRANSFORMER TESTING/OLTT.TM\*---

DATE/CODE DATE/CODE

GPC TYNDLE  
PF25 C PART CNT  
PF100 C CRBN TYP  
ANILINE CRSU SUL  
REF INDX INOR C/S  
INFR RED SLDG CNT  
CLOUD PT DBPC CNT  
FLASH PT API SGRV  
FIRE PT RESTVITY  
POUR PT VISCISITY  
DSC

---\*TRANSFORMER NOTES/CLASSIFICATION\*---

\*\*\*TRANSFORMER CONSULTANTS\*\*DIV S.D. MYERS INC\*\*PO BOX 4724\*\*AKRON OHIO 44310\*\*\*  
\*CUST- DEACONESS HOSPITAL LOC- SPOKANE WA ID#- 11092000\*  
\*SUB-NAME-- SHERWOOD VAULT UNIT#- GREY UNIT TC#- 0004 \*

\*\*\*NAMEPLATE DATA\*\*\*

MFG ITE	RADIATORS	YES	LOCATION	INDOOR
SN 20136	FANS	NO		GROUND
KVA 300	H2O COOLED	NO	TOP FPV	1.00 IN
PRI 13800	OIL PUMPS	NO	BOTTOM FPV	1.00 IN
SEC 208	TRANS CLASS		OTHER ACCS	
P/H 3/60	CONSERVATOR	NO	RECLAIMER	
GAL 117	TAP CHANGER	NO	POWER V/A	240/40
LIO ASKAREL	BUSHING LOC	SIDE	DATE MFG	
IMP 5.00%	EQUIP TYPE	TRANSFORMER	MF	

\*\*\*VISUAL INSPECTION\*\*\*

LEVEL-NORMAL PRESSURE/VACUUM- 1.00 LEAKS-NONE  
TEMP- 47 C PAINT CONDITION-GOOD SRVC-

\*\*\*PCB CONTENT/EXPRESSED IN PPM\*\*\*

DATE-	AROCHLOR 1242	TOTAL PPM
CLASS-	AROCHLOR 1254	OTHER-
COLOR LABEL-	AROCHLOR 1260	

\*\*\*TRANSFORMER LIQUID TEST DATA\*\*\*

DATE	8/22/83	NOTES/COMMENTS ON LIO TESTING
N/N MG KOH/GS	0.015 AC	
IFT DYNES/CM	N/A	KF AND/OR DIELECTRIC TEST
DIEL D877 KV	28.0 OU	INDICATES THE PRESENCE OF
DIEL D1816 KV		MOISTURE. RECOMMENDATION -
COLOR	P/Y AC	ELECTRICAL TESTING
SP GRAVITY	1.540 AC	
VISUAL	CLR AC	
SEDIMENT	NONE AC	

CODE AC-ACCEPTABLE OU-QUESTIONABLE  
UN-UNACCEPTABLE OT-OTHER

\*\*\*GAS-IN-OIL ANALYSIS/GAS CHROMATOGRAPHY/EXPRESSED IN PPM\*\*\*

DATE	NOTES/COMMENTS ON GC TESTING
HYDROGEN	
OXYGEN	
NITROGEN	
METHANE	
CRBN MONOXIDE	
CRBN DIOXIDE	
ETHANE	
ETHYLENE	
ACETYLENE	

TOTAL COMBUST  
TOTAL GAS

COMMENT

---\*ICP TESTING/METALS-IN-OIL EXPRESSED IN PPM\*---

DATE  
ALUM AL  
IRON FE  
ZINC ZN  
COPR CU  
LEAD PB  
SLVR AG  
TIN SN  
MOLY MO  
VANA V  
CADM CD

---\*KARL FISCHER TESTING\*---

DATE 8/22/83  
KF PPM 107.00  
% MOIST/DRY WT  
% SATURATION 60+  
CLASSIFICATION UN

---\*ON-LINE TRANSFORMER TESTING/OLTT.TM\*---

DATE/CODE DATE/CODE

GPC TYNDLE  
PF25 C PART CNT  
PF100 C CRBN TYP  
ANILINE CRSU SUL  
REF INDX INDR C/S  
INFR RED SLDG CNT  
CLOUD PT DBPC CNT  
FLASH PT API SGRV  
FIRE PT RESTVITY  
POUR PT VISCISITY  
OSC

---\*TRANSFORMER NOTES/CLASSIFICATION\*---

\*\*\*TRANSFORMER CONSULTANTS\*\*\* IV S.D. MYERS INC\*\*\*PO BOX 724\*\*\*AKRON OHIO 44310\*\*\*  
\*CUST- DEACONESS HOSPITAL LOC- SPOKANE WA ID#- 11092000\*  
\*SUB NAME- SHERWOOD VAULT UNIT#- BROWN UNIT TC#- 0005\*

\*\*\*NAMEPLATE DATA\*\*\*

MFG G.E.	RADIATORS YES	LOCATION INDOOR
SN G854825	FANS NO	GROUND
KVA 225	H2O COOLED NO	TOP FPV 1.00 IN
PRI 13200	OIL PUMPS NO	BOTTOM FPV 1.00 IN
SEC 480	TRANS CLASS	OTHER ACCS
P/H 3/60	CONSERVATOR NO	RECLAIMER
GAL 100	TAP CHANGER NC	POWER V/A 240/40
LIO ASKAREL	BUSHING LOC SIDE	DATE MFG
IMP 5.21%	EQUIP TYPE TRANSFORMER	MF

\*\*\*VISUAL INSPECTION\*\*\*

LEVEL-NORMAL	PRESSURE/VACUUM- .25	LEAKS-NONE
TEMP- 34 C	PAINT CONDITION-GOOD	SRVC-

\*\*\*PCB CONTENT/EXPRESSED IN PPM\*\*\*

DATE-	AROCHLOR 1242	TOTAL PPM
CLASS-	AROCHLOR 1254	OTHER-
COLOR LABEL-	AROCHLOR 1260	

\*\*\*TRANSFORMER LIQUID TEST DATA\*\*\*

DATE	8/22/83	NOTES/COMMENTS ON LIO TESTING
N/N MG KOH/GS	0.010 AC	
IFT DYNES/CM	N/A	
DIEL DB77 KV	20.0 UN	KF AND/OR DIELECTRIC TEST
DIEL D1816 KV		INDICATES THE PRESENCE OF
COLOR	WW AC	MOISTURE. RECOMMENDATION -
SP GRAVITY	1.500 AC	ELECTRICAL TESTING
VISUAL	CLR AC	
SEDIMENT	NONE AC	

CODE AC-ACCEPTABLE OU-QUESTIONABLE  
UN-UNACCEPTABLE OT-OTHER

\*\*\*GAS-IN-OIL ANALYSIS/GAS CHROMATOGRAPHY/EXPRESSED IN PPM\*\*\*

DATE	NOTES/COMMENTS ON GC TESTING
HYDROGEN	
OXYGEN	
NITROGEN	
METHANE	
CRBN MONOXIDE	
CRBN DIOXIDE	
ETHANE	
ETHYLENE	
ACETYLENE	
TOTAL COMBUST	
TOTAL GAS	
COMMENT	

---\*1CP TESTING/METALS-IN-OT/EXPRESSED IN PPM\*---

DATE  
ALUM AL  
IRON FE  
ZINC ZN  
COPR CU  
LEAD PB  
SLVR AG  
TIN SN  
MOLY MO  
VANA V  
CADM CD

---\*KARL FISCHER TESTING\*---

DATE 8/22/83  
KF PPM 90.13  
% MOIST/DRY WT  
% SATURATION 60+  
CLASSIFICATION UN

---\*ON-LINE TRANSFORMER TESTING/OLTT.TM\*---

DATE/CODE DATE/CODE

GPC	TYNDLE
PF25 C	PART CNT
PF100 C	CRBN TYP
ANILINE	CRSU SUL
REF INDX	INOR C/S
INFR RED	SLDG CNT
CLOUD PT	DBPC CNT
FLASH PT	API SGRV
FIRE PT	RESTVITY
POUR PT	VISCOSITY
DSC	

---\*TRANSFORMER NOTES/CLASSIFICATION\*---



• South wing roof

• HE 20982 - B01 500 KVA

gone

13,200 , 208/120

140 gal Askarel

• SHIRWOOD Vanet

ITE 20136 300 KVA

13800 , 208Y/120

117 gal Askarel

• SHIRWOOD Vanet

SE 6854 825 225 KVA

13,200 , 480Y/277

~~4~~ 100 gal Askarel

ARS 79, 83, 85, 86

NO QUARTZITE REPORTS -

CHARLES THURSTON  
Sales Technician

Spokane



ACTS 4:12

ACTS 4:12



Wood, California and Houston, Texas

Div. S.D. Myers, Inc.  
P.O. Box 3575  
Akron, Ohio 44310  
(216) 929-2847



TRANSFORMER CONSULTANTS

DIV. OF S.D. MYERS  
SUITE 10  
26062 EDEN LANDING ROAD  
HAYWARD, CALIF. 94545  
PHONE 783-7744

In Calif. Toll Free • 800-972-5940  
Outside Calif. Toll Free • 800-227-0637

CUSTOMER DEACONESS HOSPITALMTL Unit # 84CITY SPOKANE STATE WA

OTHER \_\_\_\_\_

## LIQUID PCB'S REMOVED FOR TESTING

TOTAL SAMPLES 5 @ 300 GRAM EACH 1.5 KILOGRAMS

( Volume in milliliters X 1.5 specific gravity (average) = Grams )

( Samples X weight in grams ÷ 1000 = Kilograms )

The above amount of PCB's have been removed from service for analytical testing.

The PCB mixture has been placed in transit for the sole purpose of disposal in accordance with the  
FEDERAL REGISTER, Rules and Regulations Part V, February 17th, 1978, Subpart B, Section 761.10  
(a) & (b).

DISPOSAL CONTAINER NUMBER(S) 84 GDU 5 DATE 12-17-79CUSTOMER Chester M. Schellenger SALES TECH Charles Thurston



**TELEPHONE 216/929-2847**

Page 1 of 1

CUSTOMER ORACONESS HOSPITAL STATE WA DATE 12/17/79  
MTL 811 OP CT TOTAL UNITS 5 TESTED 5 PT -

[illegible]



# TRANSFORMER CONSULTANTS

Div. of S. D. MYERS, INC.  
3447 INVESTMENT BLVD., SUITE 202 HAYWARD, CALIFORNIA 94545

FORM #3-101

## FIELD COPY/REPORT OF TRANSFORMER SURVEY

Mobile Test Laboratory No. 84 Customer DEACONESS HOSPITAL  
Analyst CT Date 12/17/79 City SPOKANE State WA

### LOCATION OF TRANSFORMER

TC # 1

Substation Name or Number CHILLER BLDG.  
☒ Indoor ☐ Outdoor ☐ Roof  
☒ Ground ☐ Platform ft. ☐ Pole

Unit Or Tag Number \_\_\_\_\_

### REPORT OF TRANSFORMER LIQUID ANALYSIS

	Dielectric	Acid Number	Interfacial Tension	Color	Specific	Visual	CLASSIFICATION	RECOMMENDATION
	KV	mg/KOH/g	DYNES/cm (Oil)	ASTM Number	Gravity	Conditions		
1	27	0.015	N/A	P.Y.	1.52	CL	GOOD	
2								
3								

### NAMEPLATE INFORMATION

Manufacturer ITE Primary Volts 13 200 Gal. 315 ☐ Oil ☒ Askarel  
Serial Number 70982-A01 Secondary Volts 480/277 Impedance \_\_\_\_\_  
KVA Rating 7000 Phase/Cycle 3/60 Other \_\_\_\_\_

### ADDITIONAL EQUIPMENT

Liquid Level N Radiators ☒ Yes ☐ No Conservator Tank ☐ Yes ☒ No Top Valve \_\_\_\_\_  
Temperature 40 Fans ☐ Yes ☒ No Tap Changer Comp. ☐ Yes ☒ No Bottom Valve \_\_\_\_\_  
Pressure/Vacuum -1 H<sub>2</sub>O Cooled ☐ Yes ☒ No Bushings: ☐ Top ☒ Side Other Access \_\_\_\_\_

### VISUAL INSPECTION

Cleanliness ☒ Good \_\_\_\_\_ Gaskets ☒ OK \_\_\_\_\_  
Paint ☒ Good ☐ Fair ☐ Bad Bushings ☒ OK \_\_\_\_\_  
Leaks ☒ None \_\_\_\_\_ Other \_\_\_\_\_

### NOTES — COMMENTS

27  
24  
25

5.1  
5.25  
0.015

### SERVICING INFORMATION — FOR S. D. MYERS, INC. USE ONLY

Re re Parking ☐ Good ☐ Bad Remarks \_\_\_\_\_  
Re re Hose ☐ Good ☐ Bad Distance \_\_\_\_\_ Remarks \_\_\_\_\_  
3 $\phi$  Power ☐ Yes ☐ No Remarks 50  
Energized ☐ Yes ☐ No Remarks \_\_\_\_\_



# TRANSFORMER CONSULTANTS

Div. of S. D. MYERS, INC.  
3447 INVESTMENT BLVD. SUITE 202 HAYWARD, CALIFORNIA 94545

FORM #3-101

## FIELD COPY/REPORT OF TRANSFORMER SURVEY

Mobile Test Laboratory No. 84

Customer Deaconess Hospital

Analyst CT Date 12 17 79

City SPokane State WA

### LOCATION OF TRANSFORMER

TC # 2

Substation Name or Number NORTH WING VAULT

☒ Indoor

☐ Outdoor

☐ Roof

☒ Ground

☐ Platform ft.

☐ Pole

Unit Or Tag Number \_\_\_\_\_

### REPORT OF TRANSFORMER LIQUID ANALYSIS

	Dielectric	Acid Number	Interfacial Tension	Color	Specific	Visual	CLASSIFICATION	RECOMMENDATION
	KV	mg/KOH/g	DYNES/cm (Oil)	ASTM Number	Gravity	Conditions		
1	33	0.05	N/A	P. 4.	1.52	CL	Good	
2								
3								

### NAMEPLATE INFORMATION

Manufacturer ITE

Primary Volts 13200

Gal. 218 ☐ Oil ☒ Askarel

Serial Number 20982-001

Secondary Volts 208/120

Impedance 5.44

KVA Rating 500

Phase/Cycle 3/60

Other \_\_\_\_\_

### ADDITIONAL EQUIPMENT

Liquid Level 4 Radiators ☒ Yes ☐ No Conservator Tank ☐ Yes ☒ No Top Valve 1"

Temperature 62 Fans ☒ Yes ☒ No Tap Changer Comp. ☐ Yes ☒ No Bottom Valve 1"

Pressure/Vacuum -1 H<sub>2</sub>O Cooled ☐ Yes ☒ No Bushings: ☒ Top ☒ Side Other Access \_\_\_\_\_

### VISUAL INSPECTION

Cleanliness ☒ Good \_\_\_\_\_ Gaskets ☐ OK \_\_\_\_\_

Paint ☐ Good ☐ Fair ☐ Bad Bushings ☐ OK \_\_\_\_\_

Leaks ☐ None \_\_\_\_\_ Other \_\_\_\_\_

### NOTES - COMMENTS

33  
36  
31

58  
5.3  
0.51 = 0.02

### SERVICING INFORMATION - FOR S. D. MYERS, INC. USE ONLY

Re re Parking ☐ Good ☐ Bad Remarks \_\_\_\_\_

Re re Hose ☐ Good ☐ Bad Distance 200' Remarks \_\_\_\_\_

3φ Power ☐ Yes ☐ No Remarks \_\_\_\_\_

Energized ☐ Yes ☐ No Remarks \_\_\_\_\_



# TRANSFORMER CONSULTANTS

Div. of S. D. MYERS, INC.  
3447 INVESTMENT BLVD. SUITE 202 HAYWARD, CALIFORNIA 94545

## FIELD COPY/REPORT OF TRANSFORMER SURVEY

FORM #3-101

Mobile Test Laboratory No. 84

Customer DEACONESS HOSPITAL

Analyst CT Date 12 17 79

City SPOKANE State WA

### LOCATION OF TRANSFORMER

TC # 3

Substation Name or Number SOUTH WING ROOF

☒ Indoor

☐ Outdoor

☐ Roof

☒ Ground

☐ Platform ft.

☐ Pole

Unit Or Tag Number \_\_\_\_\_

### REPORT OF TRANSFORMER LIQUID ANALYSIS

	Dielectric	Acid Number	Interfacial Tension	Color	Specific	Visual	CLASSIFICATION	RECOMMENDATION
	KV	mg/KOH/g	DYNES/cm (Oil)	ASTM Number	Gravity	Conditions		
1	35	0.015	N/A	P.Y.	1.52	CL	GOOD	
2								
3								

### NAMEPLATE INFORMATION

Manufacturer ITE

Primary Volts 13,200

Gal. 140 ☐ Oil ☒ Askarel

Serial Number 70982-801

Secondary Volts 208/120

Impedance 5.14

KVA Rating 500

Phase/Cycle 3/60

Other \_\_\_\_\_

### ADDITIONAL EQUIPMENT

Liquid Level SL Radiators ☒ Yes ☐ No Conservator Tank ☐ Yes ☒ No Top Valve 1"

Temperature 40 Fans ☐ Yes ☒ No Tap Changer Comp. ☐ Yes ☒ No Bottom Valve 1"

Pressure/Vacuum -1 H<sub>2</sub>O Cooled ☐ Yes ☒ No Bushings: ☐ Top ☒ Side Other Access \_\_\_\_\_

### VISUAL INSPECTION

Cleanliness ☒ Good \_\_\_\_\_ Gaskets ☒ OK \_\_\_\_\_

Paint ☒ Good ☐ Fair ☐ Bad Bushings ☒ OK \_\_\_\_\_

Leaks ☒ None \_\_\_\_\_ Other \_\_\_\_\_

### NOTES - COMMENTS

33  
34  
39

6.25  
6.10  
0.15  
1  
0.05

### SERVICING INFORMATION - FOR S. D. MYERS, INC. USE ONLY

Re re Parking ☒ Good ☐ Bad Remarks \_\_\_\_\_

Re re Hose ☒ Good ☐ Bad Distance 150' Remarks \_\_\_\_\_

3 $\phi$  Power ☒ Yes ☐ No Remarks \_\_\_\_\_

Energized ☐ Yes ☐ No Remarks \_\_\_\_\_







# TRANSFORMER CONSULTANTS

Div. of S. D. MYERS, INC.  
3447 INVESTMENT BLVD. SUITE 202 HAYWARD, CALIFORNIA 94545

FORM #3-101

## FIELD COPY/REPORT OF TRANSFORMER SURVEY

Mobile Test Laboratory No. 80

Customer DEACONESS HOSPITAL

Analyst CT Date 12-17-79

City SPOKANE State WA

### LOCATION OF TRANSFORMER

TC # 5

Substation Name or Number SHIRWOOD VAULT

☒ Indoor

☐ Outdoor

☐ Roof

☒ Ground

☐ Platform ft.

☐ Pole

Unit Or Tag Number BROWN UNIT

### REPORT OF TRANSFORMER LIQUID ANALYSIS

	Dielectric	Acid Number	Interfacial Tension	Color	Specific	Visual	CLASSIFICATION	RECOMMENDATION
	KV	mg/KOH/g	DYNES/cm (Oil)	ASTM Number	Gravity	Conditions		
1	36	0.02	N/A	WW	1.52	CL	6000	
2								
3								

### NAMEPLATE INFORMATION

Manufacturer GE

Primary Volts 13,260

Gal. 100

☐ Oil

☒ Askarel

Serial Number 16854325

Secondary Volts 475-1277

Impedance 5.21

KVA Rating 225

Phase/Cycle 3/60

Other —

### ADDITIONAL EQUIPMENT

Liquid Level N Radiators ☒ Yes ☐ No Conservator Tank ☐ Yes ☒ No Top Valve 1"

Temperature --- Fans ☐ Yes ☒ No Tap Changer Comp. ☐ Yes ☒ No Bottom Valve 1"

Pressure/Vacuum --- H<sub>2</sub>O Cooled ☐ Yes ☒ No Bushings: ☐ Top ☒ Side Other Access ---

### VISUAL INSPECTION

Cleanliness ☒ Good ☐ Fair ☐ Bad Gaskets ☒ OK ☐ Bad

Paint ☒ Good ☐ Fair ☐ Bad Bushings ☒ OK ☐ Bad

Leaks ☒ None ☐ Fair ☐ Bad Other ---

### NOTES - COMMENTS

35  
34  
33

6.25  
6.05  
—  
20  
—  
1  
—  
02

### SERVICING INFORMATION - FOR S. D. MYERS, INC. USE ONLY

Re re Parking ☐ Good ☐ Bad Remarks ---

Re re Hose ☐ Good ☐ Bad Distance 75' Remarks ---

3 $\phi$  Power ☐ Yes ☐ No Remarks ---

Energized ☐ Yes ☐ No Remarks ---